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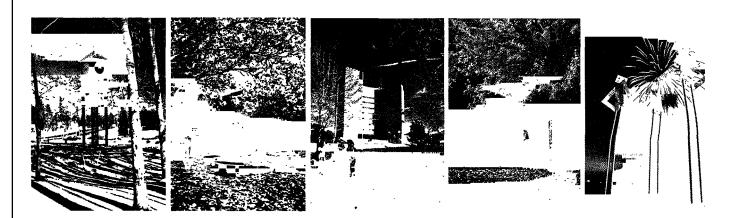
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SUNY FREDONIA



State University of New York at Fredonia

College Catalog

2003-2005

"Real success is finding your lifework in the work that you love."

David McCullough

State University of New York at Fredonia



We are consistently ranked highly by national periodicals. U.S. *News and World Report's* **"America's Best Colleges"**

(September 2002) ranked SUNY Fredonia as the best public university in the North.

elcome to the State University of New York at Fredonia. Consistently ranked as-one of the finest public universities in the North, SUNY Fredonia is recognized for high academic standards, strong graduation rates, and outstanding student services.

Fredonia's exceptional academic reputation is generated by a commitment from the entire campus community to prepare you for the opportunities and challenges of the twenty-first century. Our core curriculum immerses you in an understanding of global perspectives and cultures, encourages you to sharpen your communication skills, and allows you to explore academic disciplines with up-to-date applications of emerging technologies.

Student academic success, a hallmark at SUNY Fredonia for the past 176 years, led to the adoption of our campus motto: "Where Success is a Tradition." Students routinely receive personal assistance from faculty and staff in exploring majors, developing a course of study, and identifying career choices.

Another significant component of your education is the opportunity to participate in extracurricular

activities. Intramural and intercollegiate sports teams, internships, student government and residence life, music and theatrical productions, guest speakers and visiting artists, and over 120 student clubs and organizations offer outlets for your interests, creativity, and energy.

This catalog is your guidebook to the many opportunities available to you at SUNY Fredonia. Use it to make the most of your adventure in higher education.

Dennis L. Hefner, Ph.D.) President





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SUNY Fredonia is a leading university college offering you a variety of majors in the arts, humanities, and the natural and social sciences, as well as professional programs, and graduate master's and advanced certificate programs in many areas.

Our faculty and professional staff are committed to providing you with a high guality educational-

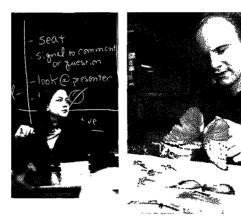
experience through classroom teaching and performance and research opportunities. Faculty members are readily available in their offices to meet with you to discuss your academic options, and small class sizes reflect our dedication to a personal approach in helping you to achieve your educational goals.

In the most recent Student Opinion Survey administered throughout the State University of New York by American College Testing, current Fredonia students indicated that they selected SUNY Fredonia for its academic programs and excellent reputation. Students also rated Fredonia highly for its cultural arts programs, study areas, recreational and intramural programs, and the condition of its buildings and grounds.

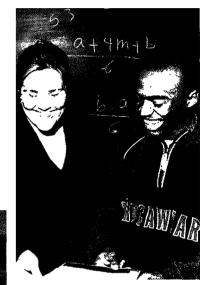
Fredonia's 249-acre campus is striking in its beauty and design. A traditional brick perimeter encloses a modern sculptured core of buildings including designs by the internationally known architectural firm of I.M. Pei and Partners.

Our history dates back to 1826, when the citizens of Fredonia recognized the importance of higher education and established the Fredonia Academy.

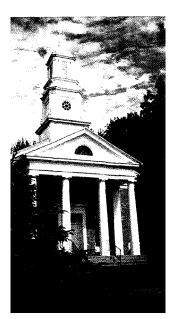












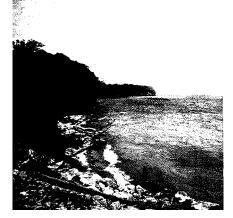
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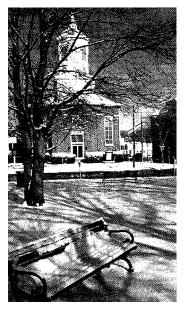
We are located within the village of Fredonia in the heart of northern Chautauqua County at Exit 59 of the New York State Thruway. Our students have the advantages of a small campus but are just a short drive away from the major metropolitan areas of Buffalo, N.Y. and Erie, Pa. Just a few hours away are Toronto, Canada, and Cleveland, Ohio.

Beautiful tree-lined avenues, Victorianera architecture, and the warmth of its citizens distinguish the village of Fredonia. Our neighboring city of Dunkirk is located on the shores of Lake Erie, which along with Chautauqua Lake, offer opportunities



for swimming and boating during the summer, and ideal locations for faculty/student research projects in the natural sciences. Nearby ski centers beckon during the winter months and miles of hiking trails at our college camp attract outdoor enthusiasts. Nationally known Chautauqua Institution provides a wealth of cultural and educational activities





during the summer months which, along with events at SUNY Fredonia, sustain a wonderful atmosphere of creativity throughout the seasons.

Western New York, and specifically, Chautauqua County, with its many vineyards, lush forests, and rolling hills reflecting the seasons, is a wonderful setting for SUNY Fredonia, and the perfect place

Fredonia, and the perfect place for you to pursue your dreams.









veryone at Fredonia is concerned with your development as an individual, including personal and educational growth. We provide opportunities in and outside of the classroom that reflect an educational philosophy based on the evolution of the total student.

Our curriculum is strengthened by our College Core Curriculum, a core of liberal education studies you'll complete regardless of your major. Our students receive support and guidance through our Academic Advising Center, and our Honors Program provides unique educational opportunities to highly motivated students.

At Fredonia, internships are available and encouraged in several academic areas, and you are able in many cases to be active in faculty research, often culminating in presentations at academic conferences. You also can participate in international education



programs conducted by Fredonia and other cooperating colleges and universities.

Fredonia graduates aresuccessstories. They include recipients of the Emmy and Academy Award, teachers of the future leaders of America, and stars at the Metropolitan Opera

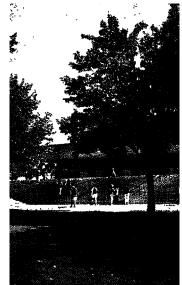


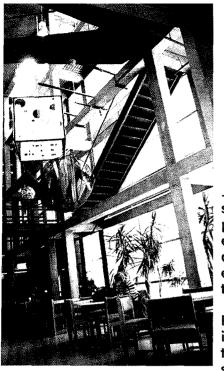
and in opera houses throughout the world. They also are judges and lawyers, doctors and nurses, clergy and missionaries, and scientists recognized around the world for groundbreaking research.

Many of our outstanding graduates attribute their success to the foundation they built at SUNY Fredonia.



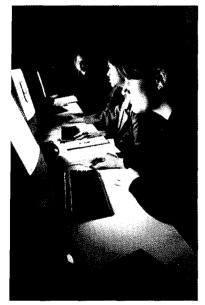






At Fredonia, we believe that for students to achieve success, academic programs require the support of the entire college community. Our academic and student services are exceptional, and reflect our dedication to your growth and development.

Reed Library has vast resources, including a music library. Electronic technology on campus includes several computer labs and our Media Center, which provides tools and hands-

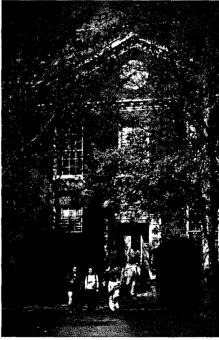




on instruction you'll use to complete academic projects. Our Learning Center's philosophy envisions peer tutoring as a symbiotic relationship in which tutors benefit right along with the students they serve. Fredonia's Counseling Center staff helps to empower students to resolve the complex issues they face during their college years, and our Student Health Center emphasizes wellness and health awareness. In addition, our Career **Development Office provides** a link between the campus and the world of work.

Our scholarship and aid programs assisted more than 600 students this year. Over \$480,000 was awarded to deserving Fredonians, including our new Keeper of the Dream scholarships created to foster multiculturalism on campus. In addition, our Financial Aid Office works diligently to help you to obtain maximum aid through federal and state programs.





he strength of a college is often measured solely on the quality of its academic programs. At Fredonia, we believe a combination of great educational options combined with a high quality of student life is the right formula for success.

Fredonia's residence halls provide you with a comfortable and secure atmosphere for living and learning. Residence life has the added advantage of activities planned by residents. Our food services offer many options, whether you're a resident or commuter student. You can eat traditional meals

in a dining center or choose from the great variety of foods served in the relaxed atmosphere of the Williams Center or at our popular cafesin McEwen and Fenton halls.

Participation in student activities, campus governance, and sports can contribute to a heightened sense of self-awareness and self-assurance. We have many clubs and activities related to academic majors, including our student newspaper and

radio and television stations. Music, dance and theatre activities

are open to all students, regardless of major. There are Greek organizations and a Leadership development program. In addition, we have many intramural and intercollegiate sports teams, and several of our students are recognized by the State University

of New York Athletic Conference as superb scholar-athletes. SUNY Fredonia's new swimming/diving facility is a beautiful addition to our campus.

Strong academic programs and a high quality of student life make Fredonia a great place for you to pursue your personal goals for the future.

> Where Success Tradition





Come to Fredonia...







Information in this catalog is accurate as of January 1, 2003. However, all information is subject to change. Updated information may be obtained from the Office of Admissions, State University of New York at Fredonia, Fredonia, NY 14063.

The college reserves the right to cancel any course for which the enrollment is deemed insufficient or for other administrative reasons. The college also reserves the right to change faculty assignments and therefore cannot guarantee students the faculty of their choice.

The State University of New York at Fredonia Catalog is published by the Office of College Publication Services.

SUNY Fredonia fully subscribes to the Non-discrimination Policy of the State University of New York.

The State University of New York, in accordance with applicable federal and state laws, does not discriminate on the basis of race, sex, ethnicity, national origin, religion, age, disability, marital status, sexual orientation, and arrest and/or conviction record. Further, in accordance with the Vietnam Era Veterans' Readjustment Assistance Acts, disabled and Vietnam Era veterans are ensured of non-discriminatory treatment.

Any violations of the university's non-discrimination policy should be reported to the Director of Affirmative Action, 143 Fenton Hall, (716) 673-3358.

A SUNY-wide grievance procedure is available to all students and employees in cases of discrimination. A person who feels he/she has been a victim of discrimination for any of the above reasons, should feel free to contact the Director. Persons who wish to initiate such a grievance or complaint should also feel free to bring a friend or advisor with them.

SUNY Fredonia Mission Statement

The State University of New York at Fredonia, a comprehensive institution of higher education, declares as its mission:

To offer programs at the baccalaureate and master's degree levels - within and across the disciplines that comprise the liberal arts and sciences and in certain professional and applied fields -consistent with the college's existing strengths, its participation in the SUNY system, and the contemporary and future needs of a changing society; and to affirm the centrality, in this enterprise, of a general education in the arts, humanities, and sciences.

To encourage teaching and learning in formal and informal settings on and off campus, as well as through field experiences, student support programs, services and activities, and advising and counseling.

To promote involvement in the scholarly and creative enterprise by recognizing and supporting a broad range of intellectual activity; basic research and artistic creation; understanding, synthesis, and interpretation of existing knowledge and art; sponsored projects; and research that seeks to improve methods of teaching and learning. The college values and supports scholarly activity that directly involves students in the creative process and recognizes that the patterns of knowledge at the frontiers of research increasingly cross disciplinary boundaries.

To contribute to the intellectual, social, and emotional development of students by preserving the quality of campus life beyond the classroom and laboratory, by insuring a rich variety of experiences within a congenial residential atmosphere and an engaging physical environment, and by encouraging a supportive sense of community.

To develop and support service to individuals and organizations beyond the campus by opening the college's extensive educational, recreational, and cultural facilities to the community; by providing opportunities to attend lectures, athletic, and cultural events, by operating programs and clinics in association with specialized instructional programs, and by encouraging faculty and staff to contribute their expertise to the variety of community-based endeavors for which it may be of value.

To commit the college to education that provides an awareness of global interdependence and cultural diversity through its curricular and co-curricular activities. Through active recruitment of students, faculty, and staff from underrepresented populations and the inclusion of this diversity in its programs, the college seeks to provide its students with the academic and personal richness afforded by exposure to such pluralistic perspectives.

To draw upon and contribute to the academic resources of the State University of New York and, in the context of excellence, to further SUNY's mission of providing accessible higher education to the diverse citizenry of New York State which the university serves.

Accreditation

The State University of New York at Fredonia is fully accredited by:

The Board of Regents of the State University of New York

The Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market St., Philadelphia, PA 19124, Tel. (215) 662-5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Recognition of Postsecondary Education.

The college's Accounting and Business Administration programs are accredited by the International Assembly for Collegiate Business Education, P.O. Box 25217, Overland Park, KS 66225, Tel. (913) 631-3009.

The School of Music has received accreditation from the National Association of Schools of Music, 11250 Roger Bacon Drive, Suite 21, Reston, VA 20190, Tel. (730) 437-0700.

SUNY Fredonia's graduate programs in Speech-Pathology and Audiology are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association, 10801 Rockville Pike, Rockville, MD, 20852, Tel. (301) 897-5700. They are also licensure qualified by the New York State Education Department.



The Department of Theatre and Dance is an Accredited Institutional Member of the National Association of Schools of Theatre and adheres to the standards set forth by NAST. The National Association of Schools of Theatre is located at 11250 Roger Bacon Drive, Suite 21, Reston, VA, 20190, Tel. (703) 437-0700. The Social Work program is accredited by the Council on Social Work Education, 1725 Duke Street, Suite 500, Alexandria, VA 22314-3457, Tel. (703) 683-8080.

The college is also on the approved list of the American Chemical Society. Its A.C.S. Approved Track in Chemistry is reviewed annually by the A.C.S. Committee on Professional Training.



UNDERGRADUATE ACADEMIC PROGRAMS AND AREA SPECIALIZATIONS

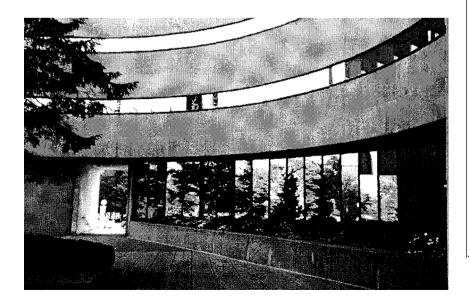
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Offerings Bulletin available during the pre-registration period each semester for an accurate list of proposed course offerings.

Course outlines, including general requirements, format of courses, and grading procedures, are available in department offices.

While the college guarantees each accepted student a full schedule of courses each semester pertinent to his/her academic objectives and in partial fulfillment of degree requirements, it cannot assure a desired time schedule, a preferred instructor, or a given course.

(Accounting, see School of Business, page 9.)

(Acting, see Theatre and Dance, page 70.)

(African	American	Studies,	see
Multi-ethni	ic Studies	s, page	48.)
(American	Indian	Studies,	see

Multi-ethnic Studies, page 48.)

AMERICAN STUDIES

Office: 235 Fenton Hall (716) 673-3430 American.Studies@fredonia.edu E-mail: Christina S. Jarvis, Coordinator

American Studies is an interdisciplinary field of study that examines the historical development and contemporary status of American cultures, including those of the American hemisphere. The American Studies major and minor programs are designed to provide students with an in-depth understanding of the multiplicity of American cultures and to serve as a useful preparation for careers in such fields as business, advertising, public relations, government service, law, journalism, television, and education. This is an Interdisciplinary Studies major program; for specific degree requirements unique to Interdisciplinary Studies, refer to page 39.

Requirements for the Major in American Studies

1.	AMST	202	Introc	luction	to	Ame	rican	
	Studies	(3	credit	hours)				
2.	Nine	credit	hours	in e	xplora	atory	and	

	y courses selected from:
AMST 210	American Popular and Mass Cultures
AMST 215	Holidays and American Culture
AMST 289	Comparative North America
AMST 296	American Identities
AMST 338	Nineteenth Century American Culture
AMST 340	Twentieth Century American Culture
COMM 102	Mass Media and Society
HIST 105	United States History I & II
or 106	
	Law and Society
or other cour	ses as advised.

3. Twenty-four credit hours of special topics courses in one of the three concentrations listed below. Courses should come from at least two disciplines, and no more than

12 credit hours can be taken from any one department. Additionally, no more than 9 credit hours may be taken at the 200-level.

4. Three credit hours in capstone project or seminar. Students may choose either AMST 400, AMST 401, or AMST 402 to fulfill this option.

Total Credits in Major: 39

Concentrations for the American Studies Major

A. US. Cultures

Students choosing this concentration are encouraged to take at least three courses with an explicitly multi-ethnic focus. ANTH 331 Anthropology and

ANTH 331	Anthropology and American Utopias
ART 251	Art and Reality in
	Nineteenth Century America
ART 345	Colonial American
ART 346	Architecture Nineteenth Century
	American Architecture
ART 247	Twentieth Century American Architecture
DANC 131 -132	Jazz Dance
ENGL 206	Survey of American Literature
ENGL 240	African American
	Literature and Culture
ENGL 242	American Indian Literature
ENGL 331	American Literary Roots
ENGL 332	American Romanticism in Literature
ENGL 334	Realism and Naturalism in
	American Literature
ENGL 335	Modern American Poetry
ENGL 336	Modernism in American Literature
ENGL 338	Contemporary American Literature
ENGL 339	Contemporary American Poetry
ENGL 340	Black Women Writers
ENGL 341	Harlem Renaissance
ENGL 344	Contemporary Multicultural American Literature
ENGL 426	Major American Writers
HIST 220	Introduction to Ethnicity and Race
HIST 325	Colonial America
HIST 327	Antebellum U.S.,
	1820-1861
HIST 328	Civil War Era
HIST 330	U.S. Industrialization and Reform 1890-1920
HIST 331	The Inter-War Years, 1919-1945
HIST 332	U.S. History, 1945 to the
	Present

HIST 333 -334	African American History
HIST 335	American Women
HIST 340	The Westward Movement
HIST 340 HIST 342	The American Century
HIST 344	African American Social
11101 044	Thought
HIST 347	U.S. Immigration
HIST 350	Vietnam/National Security
	State
HIST 351	Defining America
HIST 353	U.S. Consumer Culture
HIST 355	American Religious
	History
HIST 356	The American Indian
HIST 358	Twentieth Century
	American Indian Issues
HIST 376	Film and American Culture
INDS 105	Introduction to American
	Indian Studies
INDS 241	Introduction to Latino
	Literature and Culture
INDS 305	Latina Literary and
	Cultural Studies
MUS 262	American Music
MUS 265	History of Jazz
MUS 267	African American Music
PHIL 228	American Philosophy
POLI 120	American Politics
POLI 121	American Public Policy
POLI 150	US. and World Affairs
POLI 322	New York Government
POLI 323	Elections in America
POLI 324	President and Congress
POLI 325	Public Opinion and
	Participation
POLI 326	Media and Politics
POL 329	Topics in American Politics
POLI 356	US. Foreign Policy
POLI 365	American Political Thought
POLI 369	American Political Thought Debating Democracy
POLI1370	American Constitutional
	Law
POLI 382	Social Welfare Policy
POLI 383	Courts and Social Policy
SOC 316	Minority Groups
SOC 320	Family Sociology
	, .,

B. Cultures of the Americas

Students choosing this concentration must select at least four courses from each part.

Part I	
ANTH 321	Anthropology of Indian America
ANTH 324	Anthropology of the Caribbean
ANTH 345	Native Peoples of Canada
COMM 359	Mexican Cinema
DANC 231	Afro Caribbean Dance
FREN 310	Quebec Literature and
	Culture
HIST 282	Pre-Columbian and
	Colonial Latin America
HIST 283	Revolution and Reform in Latin America

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AMERICAN STUDIES 5

HIST 285	Indigenous America: Aztecs and Their Neighbors
HIST 378	Canada and the Canadians
HIST 380	Mexico I (Pre-Columbian and Colonial Mexico)
HIST 381	Mexico II (Mexico since Independence)
HIST 382	Colonial Latin America
HIST 383	Modern Latin America
HIST 480	Topics in Latin American
-484	History
LANG 327	Sex and Magic in Latin American Literature
LANG 371	Canadian Writers
LANG 378	Canada Today
MUS 334	Music of Latin America
POLI 331	Canadian Politics
SPAN 315	Introduction to Hispanic
	Literature
SPAN 325	Survey of Spanish- American Literature
SPAN 425	Spanish-American Fiction
Part II ENGL 240	African American Literature and Culture
ENGL 242	American Indian Literature
ENGL 340	Black Women Writers
ENGL 344	Contemporary Multicultural
LINGE 544	Literaure
HIST 220	Introduction to Race and Ethnicity
HIST 344	African American Social Thought
HIST 356	The American Indian
HIST 358	Twentieth Century
	American Indian Íssues
INDS 105	Introduction to American Indian Studies
INDS 241	Introduction to Latino/a Literature and Culture
INDS 305	Latina Literary and Cultural Studies
POLI 150	U.S. and World Affairs
POLI 356	U.S. Foreign Policy
SOC 316	Minority Groups
WOST 203	Chicana Writers and Visual Artists

C. Self-Directed Study

In consultation with the coordinator of American Studies, students may choose a special topic for interdisciplinary study that, unlike concentration A and B, is not based on geographical location. For example, a student may select courses organized by specific time periods, such as pre-modern, modern, and postmodern. Students should see the coordinator for a preapproved list of regularly offered courses.

Requirements for the Minor in American Studies

- 1. AMST 202 Introduction to American Studies
- An additional 15 credit hours from the following or from an extensive list of other courses, which is available from the program director:

AMST 210	American Popular and Mass Cultures
AMST 215	Holidays and American Culture
AMST 289	Comparative North America
AMST 296	American Identities
AMST 338	Nineteenth Century American Culture
AMST 340	Twentieth Century American Culture
HIST 353	American Consumer Culture
HIST 376	Film and American Culture
AMST 400	Concepts and Methods of American Studies

(Art, see Visual Arts and New Media, page 73.)

ARTS ADMINISTRATION

Office: G-15 Rockefeller Arts Center (716) 673-3217 E-mail: Arts.Administration@fredonia.edu Jefferson Westwood, Coordinator

The world of the performing and visual arts needs not only talented, creative artists; it also needs skilled and perceptive administrators and managers. Seeking to fill this need, the major in Arts Administration prepares students for entry level work with organizations such as symphony orchestras, arts centers and museums as well as opera, theater and dance companies. The major in Arts Administration combines courses from a variety of departments and includes practica and internship experiences that may range from 3 to 15 credit hours. In addition, to ensure an in-depth understanding of at least one arts discipline, each Arts Administration major is strongly encouraged to complete a minor in music. theater. art or dance.

The Arts Administration major is closely allied with the college's Michael C. Rockefeller Arts Center, a three-theater, two-gallery complex that offers extensive internship and employment opportunities for qualified students. Through a combination of the academic course work, internships and the extracurricular opportunities available on campus, students become qualified to work in such areas as marketing, fund raising, operations, and general arts management. A number of students have also gone on to successfully pursue graduate study in the field. This is an interdisciplinary major program; for specific degree requirements unique to Iterdisciplinary Studies, students should refer to page 39.

Courses in the Major: Business and Accounting	F	lrs.
BUAD 161 Information Te Literacy	chnology	
or		3
CSIT 104 Introduction to Microcomputer	Software	
ACCT 201 Financial Acco		3
BUAD 235 Business Com	munication	3
BUAD 310 Legal Environn Business	nent of	
or		3
ACCT 311 Business Law		
BUAD321 Management/		3
Organizational	Behavior	
<i>Statistics</i> - any one course from the following list:	in statistics	
BUAD200 Fundamentals of for Business an Economics		3
SOC200 Statistics for S	ociologists	3
PSY200 Statistics	0	3
Communication/Psychology		
One of the following 9-credit	hour, three	
course sequences:		~
COMM101 Fundamentals	of	3

course sequ	Jences.	
COMM101	Fundamentals of Communication	3
COMM221	Interpersonal Communication	3
COMM301	Group Communication	3
PSY129 PSY245 PSY355	or Introduction to Psychology Social Psychology Group Dynamics or	3 3 3
SOC116 SOC204 PSY355	Introductory Sociology Social Psychology Group Dynamics	3 3 3
<i>Journalism</i> One of the three-course	/Public Relations following 9-credit-hour, sequences:	
JOUR270	Intro. to Print Media	3
JOUR370	Reporting and Newspaper Writing I	3
JOUR371	Reporting and Newspaper Writing II	3
COMM 222	or Principles of Public Relations	3
COMM 322	Public Relations Writing	3

Public Relations Case

Analysis

3

COMM 344

BIOCHEMISTRY

7

Philosophy

PHIL 310	Business Ethics
	or
PHIL 270	Philosophy of the Arts
DI II.	and the second of the opposite of

or one Philosophy course at the 200 level or higher as advised

Arts Administration

(3 credit hours minimum/15 maximum from the experiential courses below; over 6 credit hours of practicum or internship credit will require special permission.)

AADM 400	Arts Administration	3-6
	Practicum (or ART472	
	Gallery Practicum)	
AADM 490	Arts Administration	0-15
	Internship	
Total Credits	in Major:	42-54

Requirements for the Minor in Arts Administration

The minor combines courses from business, accounting, communication. English, philosophy, and arts administration to equip students with some of the basic knowledge and skills they will need for entry-level work with orchestras, theaters, dance companies, and similar organizations. See also the description of the major in Arts Administration. The minor is recommended for students majoring in music, theater, or art who wish to gain a better understanding of the business aspects of their discipline.

Courses in the Minor	Hrs.
Business and Accounting ACCT 201 Financial Accounting BUAD 161 Information Technology Literacy or equivalent approved by Arts	3 3
Administration Coordinator such as CSIT 104 Introduction to Microcomputer Software	3
Communication/Psychology COMM 235 Business Communication (or BUAD 2235 Business Communicat	3 ion)
Journalism JOUR 270 Introduction to Print and Broadcast Journalism	3
Philosophy PHIL 310 Business Ethics	3
Arts Administration AADM 400 Arts Administration Practicum (or ART 472 Gallery Practicum)	3
Total Credits in the Minor:	18

BIOCHEMISTRY

3

3

Office:	204	Houghton	Hall		
(716)	673-3	3248			
È-máil:	Bio	Chemistry.	Progra	m@fredonia.	edu
Matthe	w A	. Fountai	n. Co	oordinator	

Biochemistry is at the core of modern fundamental enabling science. advances in medicine, agriculture, industry and basic science. Indeed, biochemists conduct some of the most exciting research in science today, and careers in biochemistry rank among the highest on almost every published list of "Best Careers." Fredonia's Bachelor of Science degree program in Biochemistry is administered jointly by the departments of Biology and Chemistry. With its emphasis on mastery of technical and analytical skills in biochemistry, Fredonia's program is designed to prepare students for graduate school, medical school, or careers in biochemical research. It also provides a broad foundation in the liberal arts. enhancing graduates' abilities to meet challenges in a shifting social climate. Fredonia's program offers a unique flexibility in that students can choose between two tracks: one with a chemical emphasis for studying molecular structure and function, and one which enables students to apply a biochemical perspective to physiological problems. Course requirements of the degree program are listed below. Although not required, participation in undergraduate research in either biology or chemistry is encouraged. For course descriptions, students should see the listings under the appropriate departments; biology, page 110, and chemistry, page 117.

Requirements for the Bachelor of Science Degree in Biochemistry

)	Core Program	n:	
	BIOL 141-	Plant Diversity and	
	-1 42	Ecology & Lab	
5		or	4
	BIOL 144	Animal Diversity and	
	-145	Evolution & Lab	
	BIOL 241	Introductory Cell Biology &	4
3	-242	Lab	
	BIOL 333	Biochemistry & Lab	4
	-334		~
ł	CHEM/	Advanced Biochemistry	3
,	BIOL 475	0	~
	BIOL 335	Genetics	3
	BIOL 340	Cell and Subcellular Biology	3
3	CHEM 115	General Chemistry I and II	8
	-116	& CHEM 125-126 (Labs)	
	CHEM 215	Organic Chemistry I and II	8
	-216	& CHEM 225-226 (Labs)	

CHEM 317/ 327	Analytical Chemis	stry & Lab	4
CHEM/	Advanced Experi	mental	2
BIOL 465	Biochemistry		
CHEM/	Biochemistry Sem	inar I	1
BIOL 397			
CHEM/	Biochemistry Sem	inar II	1
BIOL 497	-		
CSIT 1 00-Le	evel Course		3
		Total:	48

Track I (Chemical Emphasis)

BIOL 451

CHEM	Physical Chemistry I and II	8
315-316	& CHEM 325-326 (Labs)	
MATH	University Calculus I and II	8
122-123		
PHYS 230	General Physics I and II &	8
-231	PHYS 232-233 (Labs)	
BIOL and/	Approved Upper-level	6
or CHEM	Electives (listed below)	
	Total:	30
Track II (Bi	iological Emphasis)	
BIOL 443	Plant Physiology	3
DIOL 443	Tiant Thysiology	5
	or	
BIOL 336	Mammalian Physiology &	4

	01	
BIOL 336 -337	Mammalian Physiology & Lab	4
CHEM 314	Principles of Physical Chemistry	
	or	3
CHEM 315	Physical Chemistry I	
MATH 120	Survey of Calculus I and II	6
-121		
	or	
MATH 122	University Calculus I and II	8
-123		
PHYS 121	College Physics I and II &	
-122	PHYS 123-124 (Labs)	
	or	8
PHYS 230	General Physics I and II &	
-231	PHYS 232-233 (Labs)	
BIOL and/or	CHEM Approved	9
Upper-Level	Electives (listed below)	
	Total: 29 to	32

Approved Chemistry Electives	
CHEM 230 Advanced Organic Lab	1
CHEM 318/ Analytical Chemistry II	4
328	
CHEM 395 Introduction to Research	1
CHEM391/ Independent Lab	3
491 Research	
CHEM 407 Organometallics	3
CHEM 412 Advanced Organic	3
Chemistry	
CHEM 417/ Polymer Chemistry I & II	3
418	
CHEM 472 Inorganic Chemistry	3
CHEM 473 Environmental Chemistry	3
CHEM 481 Special Topics in	1-3
Chemistry*	
*Must be approved by coordinator	
Approved Biology Electives	
BIOL 336 Mammalian Physiology	3
BIOL 338 Microbiology	3
BIOL 435 Developmental Biology	3
BIOL 440 Undergraduate Research	3
BIOL 443 Plant Physiology	3

Biomembranes

3

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BIOL 451	Eukaryotic Gene	3
	Expression	
BIOL 451	Hormone Mechanisms	3
BIOL 451	Microbial Genetics	3
BIOL 451	Radiation Biology	3
BIOL 460	Recombinant Gene	3
	Technology	

Note: No more than 3 credit hours of BIOL 440 or CHEM 391/491 can be used to satisfy BIOL/CHEM electives.

BIOLOGY

(see also Medical Technology, Recombinant Gene Technology/Molecular Genetics, and Pre-Medicine) Office: 203 Jewett Hall (71 6) 673-3282 Biology.Department@fredonia.edu E-mail: Wayne N. Yunghans, Interim Chairperson

The Department of Biology offers a strong and flexible program designed to meet the career goals of students with widely varied interests. Graduates of our programs are well prepared to enter graduate school or professional programs (such as medical, dental, veterinary, physician's assistant, etc.). become research technicians, clinical medical technologists, secondary school teachers, or enter direct employment. To meet these varied interests, the department offers a wide variety of courses ranging from the molecular or physiological aspects of biology to ecology, field and environmental biology. Students interested in pre-medicine, pre-veterinary and pre-dental programs are strongly urged to register with the Biomedical Professions Council for individual advising about specific types of professional schools (see pages 61, 187).

The biology department offers Bachelor of Science degrees in Biology, Recombinant Gene Technology/Molecular Genetics (see page 63), Medical Technology (see page 45) and Biology-Adolescence Education (see page 8), as well as a Master of Science degree program to students who have already obtained a B.S. in Biology. The department also participates in the Cooperative Engineering (see page 27) and the Environmental Sciences (see page 30) programs.

Students who wish to teach biology may obtain initial certification by completing the Biology Adolescence Education program and the required courses in Professional Education

(page 25). New York State mandates that Adolescence Education majors demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of three years of high school language with a passing Regents score (passing = 65), or, (2) completion of course work at the 116 level at Fredonia, or, (3) transfer two successful college semesters, or, (4) scoring at the 50th percentile or higher on the CLEP exam. The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

The Department of Biology is particularly proud of its undergraduate research opportunities. Undergraduate students work closely with faculty members on original research projects (for example, see BIOL 440). Students annually present their research results at meetings of the Eastern Colleges Science Conference, the regional meeting of Tri-Beta, a biology honors society, as well as other regional and national meetings. Students have been co-authors of papers published in scientific journals. A wide range of research projects is available in molecular or cellular biology, biochemistry, physiology, behavior and ecoloav.

Summer Research Fellowships are sponsored in biology each summer. Each sophomore or junior awarded one of these prestigious fellowships will work on a specific project designed in collaboration with a faculty sponsor. These fellowships have been previously supported by the Constantine Barker Memorial Endowment, the Biology Endowment, the American Society for Microbiology, the Holmberg Foundation, Merck/A.A.A.S. and Pfizer Pharmaceuticals. Each award provides а generous stipend (approximately \$2,500), and a supplies budget (\$500-1,000). For more information. interested students should contact a faculty sponsor in the department.

Many students also enjoy the activities of the student-run Biology Club that invites all biology students to join them. The club organizes many activities including faculty seminars on graduate school applications, careers in the Biological Sciences, undergraduate participating in research, as well as social activities. Members of the biology department faculty are among the Fredonia faculty

that are honored recipients of the Chancellor's Award for Excellence in Teaching.

Science De	s for the Bachelor of gree in Biology	
Core Progi BIOL 141	Plant Diversity and	4
-142 BIOL 144 -145	Ecosystem Biology & Lab Animal Biology and Evolution & Lab	4
BIOL 241 -242	Introductory Cell Biology & Lab	4
BIOL 330 -331	General Ecology & Lab	4
BIOL 333 -334	Biochemistry & Lab	4
BIOL 335 BIOL 340	Genetics Cell and Subcellular Biology	3 3
	Senior Seminar onal credit hours of ves at the 300 to 400	1 9
level		36
CHEM 115 -116	General Chemistry I and II & CHEM 125-126 (Labs)	8
CHEM 215	Organic Chemistry I and II & CHEM 225-226 (Labs)	8
MATH 120	Survey of Calculus I	3
MATH 122 PHYS 121 -122	or University Calculus I College Physics I and II & PHYS 123-124 (Labs) or	4
PHYS 230 -231	University Physics I and II & PHYS 232-233 (Labs) 27 or	-

Requirements for the Bachelor of Science Degree in Biology (Adolescence Education)

Core Progra	m:	
BIOL 141	Plant Diversity and	4
-142	Ecosystem Biology & Lab	
BIOL 144	Animal Biology and	4
-145	Evolution & Lab	
BIOL 241	Introductory Cell Biology &	4
-242	Lab	
BIOL 330	General Ecology & Lab	4
-331	Dischargistry 0. Lab	
BIOL 333	Biochemistry & Lab	4
-334 BIOL 335	Genetics	3
BIOL 335		3
BIOL 340	Cell and Subcellular	3
BIOL 421	Biology Biological Concentration	3
BIOL 421 BIOL 431	Biological Conservation Senior Seminar	1
	onal credit hours of	6
	ves at the 300 to 400	0
level	ves at the 300 to 400	
		36

CHEM 115	General Chemistry I and II	8
-116	& CHEM 125-126 (Labs)	0
CHEM 215	Organic Chemistry I and II	8
-216	& CHEM 225-226 (Labs)	
MATH 120	Survey of Calculus I	3
	or	
MATH 122	University Calculus I	4
PHYS121	College Physics I and II &	
-122	PHYS 123-124 (Labs)	
	or	8
PHYS230	University Physics I and II	
-231	& PHYS 232-233 (Labs)	
	27 or	28

Additional education courses are listed on page 25. Students must also maintain a minimum 2.75 GPA overall and in the major to be admitted into the senior EDU 419 Secondary School Methods and EDU 430 Student Teaching in the Secondary School. Upon completion of this program the student will be recommended for the initial certificate to teach in N.Y. State public schools.

Bachelor of Science Degree in Medical Technology

For information on this program, see page 45.

Bachelor of Science Degree in Recombinant Gene Technology/ Molecular Genetics

For information on this program, see page 63.

Chemistry and mathematics courses should be completed by the end of the sophomore year, physics courses by the end of the junior year.

Requirements for the Minor in Biology

A total of 22 credit hours of biology including BIOL 141,144,241 and BIOL 330 or 333 with laboratories and 6 credit hours of biology courses at the 300 or 400 level (not including BIOL 440).

Note: Students electing BIOL 330 must have completed a minimum of 4 credit hours of chemistry, students electing BIOL 333 will be expected to have completed 16 credit hours of prerequisite chemistry courses.

One-credit laboratory work normally includes three clock hours in laboratory per week.

Requirements for Transfer Credit: The degrees offered by the biology department require students complete between 32 and 41 credit hours of biology core and elective courses (Biology and Adolescence Education, 36 credits; Medical Technology, 32 credits: Recombinant Gene Technology-Molecular Genetics, 41 credits) chosen under the careful process of advisement. Students are expected to complete at least half of the biology courses at Fredonia. Additional credit hours transferred may be used as general electives toward graduation. Students wishing to minor in Biology must complete at least 9 credits of biology courses at Fredonia. As a rule the department will not accept as equivalent for upper level courses credit earned at two-year colleges.

BUSINESS

Office: W301 Thompson Hall (716) 673-4813 E-mail: Business School @fredonia.edu James R. Hurtgen, Founding Director

The School of Business includes the Department of Business Administration and the Department of Economics. The school serves three goals: to prepare students for careers or continued studies requiring a thorough grounding in business and economics: to support the scholarly and research activities of its faculty and students: and to promote the involvement of faculty and students in the work of the college and the world beyond the campus. To meet its teaching obligation, the School of Business offers the following degrees:

B.S. Accounting

B.S. Business Administration: Finance

B.S. Business Administration: Management

B.S. Business Administration: Management Information Systems B.S. Business Administration: Marketing

B.A. Economics

Additionally, the School of Business provides courses for students pursuing other majors who wish to further their understanding of business and economics in the contemporary world. Minors in Business Administration and in Economics are available to supplement other majors offered by the college. The school offers courses as appropriate for completion of the College Core Curriculum. The School of Business participates in the Industrial Management major. This major prepares students for careers in business, industry and government requiring both technical and managerial knowledge. For information on this major, see page 38. The school also participates in the Music Business major (see page 56)

and the Information Systems Track of the Computer Science major (see page 17). For information on the degree programs offered by the School of Business, interested persons should note the descriptions for Accounting, Business Administration and Economics, below.

Accounting

Office: W301 Thompson Hall (716) 673-3505 E-mail: Accounting.Program@fredonia.edu **Mojtaba Seyedian**, *Chairperson*

Through its Accounting program, the Department of Business Administration provides the opportunity for students to obtain a quality education and to gain an awareness of their individual strengths and interests in order to make appropriate career decisions. The department offers students a rigorous, up-to-date curriculum that prepares them for imaginative and responsible leadership roles in accounting domestic and worldwide. While the program is career-oriented, the department realizes that contemporary accounting professionals must bring a broad and varied perspective to their practice. Accordingly, the program requires that prospective graduates take half of the 120 hours needed for a degree outside the department, with particular emphasis given to the development of written and oral communicative skills and the acquisition of the ability to think creatively and critically.

Students are urged to declare a major in Accounting as early as possible in their college careers. Students who wish to declare this major after they have earned 90 credit hours will need the permission of the department chairperson and the Dean for Natural and Social Sciences and Professional Studies.

The Accounting program offers the degree, B.S. in Accounting, which qualifies graduates to take the Certified Public Accounting (CPA) examination. Additionally, graduates are qualified to sit for the Certified Management Accounting examination. The program is administered by the Department of Business Administration, and Accounting majors are eligible for all awards, honors, and programs sponsored by the department (see page 11 for more information).

The Accounting and Business Administration programs at SUNY Fredonia have been accredited by the

International Assembly for Collegiate Business Education. The Department of Business Administration presently has a number of formal and informal agreements with several universities that allow students to matriculate into accelerated B.S./M.B.A. programs (see page 11 under Business Administration for details). These arrangements will provide a means for Accounting students to meet the 150-hour requirement to sit for the CPA exam in many states. New York State's 150-hour requirement goes into effect in 2008.

Career Options

There are three major sources of employment for Accounting graduates - public accounting, management accounting, and governmental accounting. Public accounting firms provide clients with a wide variety of services, including auditing, tax consulting, and management advisory services. Management accountants are employed by companies in various areas, such as cost accounting, budgeting, general ledger accounting, and internal auditing. Governmental accountants, employed by the federal, state, and local governments, have the responsibility to monitor the use of the taxpayers' money. In the federal government, the major sources of employment for accountants include the Internal Revenue Service, General Accounting Office, and Defense Contract Audit Agency.

Student Clubs and Activities

Students majoring in Accounting can participate in a number of clubs or activities that are designed to supplement classroom work. The student clubs include the Business Club. the Financial Management Association, a collegiate chapter of the American Marketing Association, and the Accounting Society. The Accounting Society engages in many activities, including meetings with accountants from industry, government, and public practice. The society also conducts the Volunteer Income Tax Assistance program (a service provided under the auspices of the IRS) by which student volunteers help to prepare individual personal income tax returns for low-income and elderly persons. The Accounting program also has a number of standing internships with various local firms and organizations.

Requirements for the Bachelor of Science Degree in Accounting

1. To earn a B.S. degree in Accounting, a student must complete 60 semester hours in accounting and business administration courses, plus 60 semester hours in liberal arts and science courses, as directed by the State Board for Public Accountancy.

2. Accounting majors must complete the following 60 semester hours in accounting and business administration courses. Hrs.

		nis.
ACCT 201	Financial Accounting	3
ACCT 202	Managerial Accounting	3
ACCT301	Intermediate Accounting I	3
ACCT 302	Intermediate Accounting II	3
ACCT 303	Cost Management	3
ACCT 304	Taxation of Individuals	3
ACCT 305	Taxation of Corporations	3
	and Partnerships	
ACCT311	Business Law I	3
ACCT 312	Business Law II	3
ACCT321	Accounting Processes	1
ACCT 322	Accounting Practice	1
ACCT401	Advanced Accounting	3
ACCT 405	Auditing	3
ACCT421	Accounting Cycles	1
BUAD161	Information Technology Literacy	3
BUAD261	Management Information Systems	3
BUAD 315	Principles of Business Finance	3
	and	
BUAD 317	Corporate Finance or	3
BUAD 416	Investment Analysis	5
20/12 110	and	
BUAD321	Management and Org.	3
	Behavior	
BUAD 325	Principles of Marketing	3
BUAD 423	Strategic Management	3

and one of the following:

BUAD 327 (if not taken for managerial 3 track), BUAD 266, BUAD 427 or ACCT/BUAD 480 Students may select the managerial track by taking BUAD 327 rather than ACCT 304, and BUAD 427 as the alternate. ECON 300 is recommended. Total accounting and business administration

3. Students majoring in Accounting must complete the following 60 semester hours in liberal arts and science courses:

BUAD	Fundamentals of Statistics
/ECON 200	for Business and
	Economics
ECON 201	Principles of
	Macroeconomics

ECON 202	Principles of	3
	Microeconomics	
MATH 120	Survey of Calculus I	3
Electives in liberal arts and sciences		48
Total liberal arts and sciences		60

4. Accounting majors must obtain a minimum cumulative quality point average of 2.00 in all accounting (ACCT prefix) courses. This requirement is in addition to the college requirements of 2.00 overall and 2.00 in courses required for the major.

5. Accounting majors must complete a minimum of 30 credit hours of SUNY Fredonia 300/400-level business administration and/or accounting courses.

Requirements for the Minor in Accounting

The Department of Business Administration offers a minor in Accounting that requires 18 credit hours of courses in accounting, plus their prerequisites. Included within the 18 hours must be ACCT 301 and two other 300/400-level courses in accounting. Business Administration majors wishing to minor in Accounting must take at least 9 credit hours of accounting credit beyond those used toward their Business Administration major.

BUSINESS З

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ADMINISTRATION

Office: W301 Thompson Hall 3 (716) 673-3505

È-mail:Business.AdministrationQfredonia.edu 3 Mojtaba Seyedian, Chairperson

The mission of the Department of Business Administration is to provide students with the opportunity to obtain a quality education in Business Administration and Accounting and gain an awareness of their individual strengths and vocational interests in order to make appropriate career decisions. The Business Administration program has been accredited by the International Assembly for Collegiate Business Education. The department offers a rigorous, up-to-date curriculum that prepares students for imaginative and responsible citizenship and leadership roles in business and accounting domestic and worldwide. The curriculum is geared to social, economic. and technological developments and reflects the

application of evolving knowledge in economics and the behavioral and

quantitative sciences. While the programs offered are career-oriented, the department realizes that contemporary business and accounting professionals must bring a broad and varied perspective to their respective crafts. Accordingly, the department requires that prospective graduates take at least half of the 120 hours needed for a degree outside the department, with particular emphasis given to the development of written and oral communicative skills and the acquisition of the ability to think creatively and critically. Due to the nature of the program, students in Business Administration find themselves prepared for a cross-section of opportunities. Recent graduates have embarked on careers in areas ranging from business and management consulting to financial planning for corporations and government. The banking and investment fields have also interested many of our graduates. Other students have chosen sales management, insurance, or personnel administration as their field. Those wishing to pursue graduate studies have found that the skills acquired through their course work and field experiences have opened doors to major universities.

The department offers five separate degrees: Bachelor of Science in Accounting (see page 9), which qualifies graduates to take the Certified Public Accounting (CPA) examination and/or the Certified Management Accountant examination: a Bachelor of Science in Business Administration - Finance, a Bachelor of Science in Business Administration-Management, а Bachelor of Science in Business Administration - Management Information Systems, and a Bachelor of Science in Business Administration - Marketing. The department also participates in the Cooperative Engineering program (see page 27).

Students are urged to declare a major in Business Administration as early as possible in their college careers. Students who wish to declare this major after they have earned 90 credit hours will need the permission of the department chairperson and the Dean of Natural and Social Sciences and Professional Studies.

Internship Opportunities

In addition to its regular course offerings, the department has an active internship program. Internships are work-experiences for which students receive academic credit. The department offers a number of internship opportunities with various local and regional firms and organizations such as Key Bank, Buffalo Sabres, Paychex, Inc., Merrill Lynch Co. and Cliffstar Corp.

Student Clubs and Activities

As a Business Administration or Accounting major, students can participate in a number of student clubs or activities that are designed to supplement classroom work with extracurricular experiences of a professional nature. These include, but are not limited to, the Business Club; a collegiate chapter of the American Marketing Association; the Accounting Society: and the Financial Management Association. Students may also participate in the Volunteer Income Tax Assistance Program, a service provided under the auspices of the Internal Revenue Service, through which students help to prepare individual income tax returns for low-income and elderly persons living in Chautauqua County, as well as the Students In Free Enterprise (S.I.F.E.) program.

Honors and Awards

Students who excel in their studies are eligible for recognition through membership in the campus chapter of Delta Mu Delta, a national honor society in business administration: and the Financial Management Association National Honor Society. Initiation is competitive and highly selective. Besides these honor societies, individual students can be recognized for outstanding scholastic achievement. Each year the faculty presents eight special awards: the M.R. Poummit Achievement Award to the graduating senior with the highest grade point average: the Wall Street Journal Achievement Award, given to the graduating senior whose overall scholarship and community service best exemplifies the mission of the department: the Financial Executive Institute Award, the John T. Kennedy Memorial Award, and the New York State Society of CPAs Award, given to outstanding students in accounting: the Donald C. Brandt Memorial Scholarship to an outstanding sophomore or junior: the Students in Free Enterprise (S.I.F.E.) Scholarship to an outstanding S.I.F.E. member; and the Alumni Scholarship, given to a junior with an outstanding record of academic achievement.

Accelerated Masters of Business Administration

The department has entered into a number of formal and informal agreements with several universities that allow our students to matriculate into accelerated B.S./M.B.A. programs. All such agreements usually reduce by one the number of years it takes a full-time student to complete a B.S. and M.B.A. The department has a 3 plus 2 agreement with the State University at Buffalo that requires three years of study at Fredonia and two years at Buffalo to finish the program. A similar 3 plus 2 agreement exists with SUNY Binghamton. The department also has 4 plus 1 arrangements with Clarkson University, Rochester Institute of Technology, St. Bonaventure University, and the University of Pittsburgh. Students who are interested in any of these accelerated M.B.A. programs should see their academic advisor early in their freshman year, as completion of these programs usually involves careful course selection.

Requirements for the Bachelor of Science Degree in Business Administration

1. General major requirements (45 credit hours):

BUAD161	Information Technology Literacy	3
MATH 120	Survey of Calculus I	З
BUAD/	Fund. of Stats. for	З
ECON 200	Business and Econ.	
ACCT201	Financial Accounting	3
ACCT 202	Managerial Accounting	З
ECON201	Principles of	З
	Macroeconomics	
ECON 202	Principles of	3
	Microeconomics	-
BUAD261	Management Information Systems	3
BUAD/	Statistical Analysis	З
ECON 300		
BUAD 310	Legal Environ. of Business	3
BUAD 315	Principles of Business Finance	3
BUAD321	Management and Org. Behavior	3
BUAD 325	Principles of Marketing	3
BUAD 327	Production and Operations Management I	3
BUAD 423	Strategic Management	3

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2.	Specific	major requirements:	
Α.	Finance	- 15 additional credit hour	s
AC	CT 304	Taxation of Individuals	~
AC	CT 305	or Taxation of Corporations/ Partnerships	3
EC	ON 315	and Money/Banking/Monetary Economics	3
BU	AD 317 AD 416 is one of t	Corporate Finance I Investment Analysis he following:	3 3
EC BU	CT 303 ON 350 AD 418 AD 480	Cost Management Managerial Economics Corporate Finance II Internship	3 3 3 3
6. hoi	0	ment - 15 additional credi	t
-	IAD 317 IAD 330	Corporate Finance I Human Resource Management	3 3
	ON 350 AD 427	Managerial Economics Production and Operations Management II	3 3
Ρlι	is one of t	he following:	
	CT 303	Cost Management	3
-	DLI 363 AD 440	Game Theory Advanced Human	3 3
ВU	IAD 480	Resource Management Internship	3
C. - 2	Manage 24 additio	ment Information Systems	
	AD/ Intro MM 235	duction to Business Communication	3
	AD 266	Business Application	3
BU	AD 361	Development Networks, Distributed Systems, Telecommunications	3
BU	AD 363	Systems Analysis and	3
BU	AD 366	Design Database Management Systems	3
BU	AD 463	Information Technology Project Management	3
BU	AD 466	Business Object-Oriented Modeling	3
Plu	is one of t	he following:	
	IT 121	Computer Science I	3
	CT 303 AD 427	Cost Management Production and Operations	3 3
ЪU	AU 421	Management II	-
	AD 462 AD 480	Electronic Commerce Internship	3 3
Note: Students wishing more of an			

Note: Students wishing more of an emphasis on computer science should use CSIT 121 for their MIS elective and may substitute CSIT 205 for BUAD 266 and CSIT 351 for BUAD 363.

D. Marketing - 15 additional credit hours BUAD 340 Marketing Research BUAD 342 **Consumer Behavior BUAD 445** Integrated Marketing Communications Sales Management **BUAD 446** Plus one of the following: ACCT 303 Cost Management BUAD 411 Marketing Management **BUAD 427** Production and Operations Management II BUAD 480 Internship

3. Business Administration majors must complete a minimum of 27 credit hours of SUNY Fredonia 300/400-level business administration and/or accounting courses.

Requirements for the Minor in Business Administration

The department offers a minor in Business Administration that requires 18 credit hours of business administration and/or accounting courses plus their prerequisites. Included within the 18 hours must be 9 credit hours of "specific major" course requirements, as indicated above. Accounting students wishing to minor in Business Administration must take at least 9 credit hours of business administration beyond those required for the Accounting major.

ECONOMICS

Office: E366 Thompson Hall (716) 673-3509 È-mail: Economics.Department@fredonia.edu 3 Amar K. Parai, Chairperson Economics provides an understanding of how economic systems function and offers insight into the nature of real-world economic events, issues and problems while teaching the 3 student a way of thinking that is clear, logical, analytical and rigorous. The 3 study of economics encompasses a wide range of human behavior and experiences. Therefore, it has come to be widely recognized as a solid

preparation for many professional careers in business, finance, non-profit organizations, and government.

Courses in economics that emphasize the relevance of economic principles to areas in business, finance, quantitative and computer applications, public administration or industrial relations, provide the student with an excellent background for a variety of jobs and professions. The study of economics also provides an excellent preparation for graduate study in such professional areas as law, industrial relations, business and

public administration.

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Economics majors have the opportunity to participate in *Omicron Delta Epsilon*, the International Honor Society in Economics. Annually, the Maytum scholarship (\$1 1,000 for 2001 -02) and Hart-Gorman Economic Awards go to the outstanding majors and double majors in Economics.

Economics As Preparation For Master of Business Administration (M.B.A.). Most graduate schools of business prefer their students to have a broad, liberal arts background. Since economics is more closely related to business administration than many other liberal arts areas, it is an ideal preparation for study toward the Master of Business Administration degree. According to a study conducted by the American Assembly of Collegiate Schools of Business (AACSB), graduate business school professors stress economics as the most important undergraduate preparation.

Economics Major As Pre-Law Study. There are no precisely prescribed pre-law programs or undergraduate courses. However, according to the Chronicle of Higher Education, many law schools believe that economics is one of the best preparations for the study of law. It is particularly helpful because it deals with human experience in a variety of fields of study: it develops the student's analytical skills in problem solving; and it provides the basis for analysis of many legal problems. A recent study found that among the 14 majors that had more than 2,000 students taking the Law School Admission Test (LSAT), Economics students received the highest average test scores in recent years.

Major, Minor in Economics and Certificate in International Economic Studies, and Specialization in Economic Studies for Social Studies Students in Adolescence Education.

The department offers a major in Economics (B.A. degree) with designed fields in Business and Financial Economics; Data Analysis and Computer Applications; and Public Policy and Economics. Alternatively, with consultation and approval of the faculty advisor, the student may develop his/her own field of specialization. Thirty-six credit hours of course work are required for a major in Economics. A minor, which requires 24 credit hours in Economics, is also available.

As an option to students majoring in Economics, the department issues a letter certifying the completion of International Economic Studies to those who complete 15 hours of designated course work.

Additionally, the economics department offers a specialization in Economic Studies to Social Studies-Adolescence Education students who wish to teach economics in high school.

Students who are contemplating graduate study in economics should consider taking the following courses as part of their specialization field:

ECON 400 Econometrics MATH 122 University Calculus I University Calculus II MATH 123 MATH 231 Linear Algebra The department strongly recommends that Economics majors take additional courses in accounting, computer science and calculus.

Requirements for the Bachelor of Arts Degree in Economics

As an economics major, a student must complete 24 credit hours of core economics and mathematics and 12 credit hours of optional economics courses.

The core economics courses include:

*ECON	200	Fundamentals of Statistics
*ECON	201	Principles of
		Microeconomics
*ECON 2	202	Principles of
		Macroeconomics
*ECON	300	Statistics for Economics
		and Business
ECON 3	05	Intermediate
		Microeconomic Theory
ECON 3	10	Intermediate
		Macroeconomic Theory
ECON 4	50	Senior Seminar
MATH 1	20	Survey of Calculus I
		or
MATH ´	122	University Calculus I

*these courses are also required for accounting and business degrees

**this course is required for Business Administration and recommended for Accounting degree.

The elective economics courses include any four courses above ECON 300. Popular courses are in the following suggested areas of study:

- Business and Financial Economics
- Public Policy and Economics
- Data Analysis and Computer Applications
- Human Resources
- International Economics
- Environmental and Natural Resource Economics

The Department of Economics participates in the Cooperative Engineering program. Interested persons should refer to the description of this program on page 27.

Requirements for the Minor in Economics

Twenty-four credit hours are required for a minor. They include: Hrs.

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
ECON 305	Intermediate	
	Microeconomic Theory or	3
ECON 350	Managerial Economics	
ECON 310	Intermediate	
	Macroeconomic Theory	
	or	3
ECON 315	Money, Banking and	
	Monetary Economics	
MATH 120	Survey of Calculus I	
	or	3 or 4
MATH 122	University Calculus I	
and 9 additional credit hours of at the 300 level or above.		

Requirements for the Certificate in International Economic Studies As an option to students majoring in

economics, the department awards a certificate documenting the completion of International Economic Studies to Economics majors who complete the following 15 credit hours of course work:

Two of the following courses:

ECON 320	International Trade and
	Finance
ECON 345	Comparative Economic

	Systems
ECON 335	Economic Development
ECON 395	Comparative Human
	Resources

and 9 credit hours in foreign area study and/or international/comparative study. A maximum of 6 credit hours of a foreign language may be counted for the International Economic Studies option.

Requirements for a Specialization in Economic Studies - Adolescence Education

This option is recommended for Social Studies-Adolescence Education students who are interested in teaching economics in high school. The following is a description of the program requirements:

Social Stud HIST 105 HIST 106 HIST 115 -116	ies Courses: Introductory U.S. History to 1877 U.S. History Since 1877 Early and Modern Western Civilization or	3 3 6
HIST 101 -102	Global Survey I and II	U
POLI 120	Introduction to American Politics	
POLI 150 SOC 11 6	or U.S. and World Affairs	3
	Introductory Sociology or	3
ANTH 115 ECON 201	Introductory Anthropology Principles of	3
ECON 202	Macroeconomics Principles of Microeconomics	3
Social Studi (300-400 lev	ies Courses: Advanced	
	science course in	3
One political	science course in or International Studies	3
	in minority studies: ANTH 322, HIST 336, HIST 347, IST 358 or SOC 316	3
and 9 credit course in U.S in non-weste	hours in history (one S. history, and one course rn areas: Asia, Africa, a or the Middle East).	9
Plus oithor a	General Social Studies or	

Plus either a General Social Studies or Economics Studies option

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General Social Studies Option
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9 credit hours in history, economics, political science, sociology or anthropology (all courses must be 300 level or above with one course in U.S.. one course in non-US. and one course in non-western areas: Asia, Africa, Latin America, Middle East)

Economic Studies Option مريمه المعاربة

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	a for students who have	
	aching economics in high	
school in add	lition to other social	
studies subje		
ECON 305	Intermediate	3
	Macroeconomic Theory	
ECON 310	Intermediate	3
	Microeconomic Theory	
and 3 credit I	hours of economics from	
ECON 315, E	ECON 320, ECON 345, ECO	N
370, or ECO	N 380	

Professiona	al Education:	
EDU 105/	Introduction to	
106	Contemporary Education	
EDU 224	Adolescent Development	3
	& Child Abuse Workshop	
EDU 250/	Introduction to the	3
251	Exceptional Learner	
EDU 276	Foundations of Literacy	3
	and Technology	
EDU 305/	Cultural and Linguistic	3
313	Diversity in the Classroom	
EDU 349	Educational Psychology&	3
	Child Abuse Workshop	
EDU 419	Secondary Methods	3
EDU 430	Student Teaching in the	15
	Secondary School	

36 Total: 87 hours

Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 1 16 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing Regents score (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

CHEMISTRY

Office: 207 Houghton Hall (716)673-3281 E-mail: Chemistry.Department@fredonia.edu Thomas S. Janik, Chairperson

The goals of the chemistry department are to prepare its majors for advanced study in chemistry, chemical engineering, related disciplines or professional programs; or careers in industrial, environmental, and governmental laboratories; or for careers in teaching. The department strongly believes in the value of rigorous course work combined with practical experience. Thus, students spend much of their time in the department participating in undergraduate research; this has led to an informal atmosphere with student-faculty considerable interaction. Often the results of such research are presented at conferences or published in chemistry journals. Paid internships with local industries are also available.

The Chemistry Club is very active and includes in its activities an outreach program to local schools.

Departmental honors and scholarships 3 include the Moos, Keller, Thumm, Marletta and Dingledy awards.

The department offers three tracks, each leading to a B.S. in Chemistry degree. Track I, the Standard Major, is often chosen by students having second majors or minors in related disciplines. Track II satisfies the curriculum requirements of the American Chemical Society (A.C.S.) and is recommended for students interested in graduate or professional schools. Track III has its emphasis in environmental chemistry. Each track requires the completion of a Core Program plus additional course work. The departments of Chemistry and Biology jointly administer a major in Biochemistry, see page 7. The department maintains a graduate program leading to a M.S. degree. A five-year program is available to outstanding students which is a combined B.S./M.S. program.

Grading Standards: A minimum Cgrade is necessary for all required chemistry courses counted toward the major or minor; a collective minimum 2.00 grade point average is necessary for all required rnathematics/computer science, and physics courses.

Prerequisites/Corequisites for Laboratory Courses: Laboratory and lecture courses are separately enrolled and graded. As a result, there are some general requirements for laboratory courses: (1) CHEM 126 or 130 is a prerequisite for any laboratory course at a higher level; (2) for all laboratory courses the corresponding lecture course is a pre- or corequisite; (3) if a student drops or withdraws from a lecture course, he/she may be required to withdraw from the corresponding laboratory course.

Cooperative Engineering : The chemistry department participates in the Cooperative Engineering program. Refer to the description of this program on page 27.

For the B.S. degree in Geochemistry, an interdisciplinary program with the geosciences department: The course requirements for this curriculum are given on page 33.

Teacher Certification: Stud e nts wishing to teach chemistry in the secondary schools can obtain provisional certification by completing either of the tracks described below and the required courses in Professional Education. The procedure to be followed for admission to the professional sequence of courses is described on page 25. Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 1 16 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing Regents score passing = 65 percent). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

A.C.S. Approved Track: The curriculum for the A.C.S. Approved Track is reviewed annually by the A.C.S. Committee on Professional Training. If, because of this review, it becomes necessary to modify the curriculum requirements, revisions will be on file with both the Dean of Natural and Social Sciences and Professional Studies, and the Vice President for Academic Affairs. Such revisions would be in effect for students who had completed less than 60 credit hours at the time of the revision.

Requirements for the Bachelor of Science Degree in Chemistry

Core Program (36 credit hours in chemistry; 15 credit hours in related disciplines)

CHEM 115 -116	General Chemistry	6
CHEM 125	General Chemistry I Lab	1
CHEM 126	General Chemistry	1
or 130	II Lab	
CHEM 215 -216	Organic Chemistry	6
CHEM 225	Organic Chemistry I Lab	1
CHEM 226	Organic Chemistry	1
or 230	II Lab	
CHEM 315	Physical Chemistry	6
-316	&	
CHEM 317	Analytical Chemistry	6
-318	&	
CHEM 325	Physical Chemistry	2
-326	I & II Labs	
CHEM 327	Analytical Chemistry I Lab	1
CHEM 328	Analytical Chemistry II Lab	2
CHEM 395	Introduction to Research	1
CHEM 495	Seminar	2
-496		-

PHYS 230 University Physics I -232 & Lab **MATH 122** University Calculus -123 I and II CSIT 104 Introduction to Microcomputer Software Visual BASIC **CSIT 105** Programming or **CSIT 106** C/C++ Programming 15 Additional requirements - Track / (Standard Major) Independent Laboratory Research (CHEM 391,392,491,492) or Advanced Lecture Elective Advanced Lecture Elective (400 level) University Physics PHYS 231 -233 II & Lab Additional Requirements - Track II (A.C.S. Approved Major) **BIOL 333** Biochemistry CHEM 462 Inorganic Chemistry & Lab -472 Independent Laboratory Research (CHEM 391,392,491,492) or Advanced Lecture Elective Advanced Lecture Elective (400 level) PHYS 231 University Physics II & -233 Lab Mathematics Elective - any 3 or 4 mathematics course having MATH 122 or 123 as a prerequisite Additional Requirements - Track III

(Environmental Emphasis) CHEM 371 Internship 3 -372 CHEM 473 Environmental Chemistry 3

Area requirement - 6 credit hours in one of three areas: biology, geosciences, or social sciences. Approved sequences are: biology: BIOL 131-1 32, BIOL 330, and BIOL 333 or 343; geosciences: GEO 165, 440, and GEO 450: social sciences: any three courses from among ECON 201, ECON 202, ECON 380, PHIL 116, POLI 276 and POL1 277.

Requirements for the Minor in Chemistry

A minimum of 24 credit hours in chemistry is required including CHEM 115-116, 125 and 126 or 130, and 16 additional hours at the 200 level or above. Of these additional hours: (1) at least 2 hours must be in laboratory courses; (2) at feast 6 hours must be from 300 or 400 level courses; and (3) CHEM 300,302,305,371, and 372 cannot be counted.

COMMUNICATION

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Office: 326 McEwen Hall (716) 673-3410 F-mail: Communication.DeparlmentQfredonia.edu

Communication relates to how individuals, groups, organizations, societies, and cultures may establish humane and productive relationships in expressing needs, mediating problems, and pursuing goals. It is one of the oldest areas of academic study and, because of the transformation of personal and social life by the growth of media technologies, a central discipline. Students approach processes, practices and distortions involved in human communication from a critical perspective, and integrate application and theory throughout the curriculum.

The Department of Communication offers majors in Audio/Radio Production, Communication Studies, Media Management, Public Relations, and Television and Digital Film Design and Production.

The department also offers a minor in Communication.

Graduates of the program have successful careers in corporate and public settings, and working in media at all levels. Communication students have also continued their education in graduate programs and law schools around the country.

Students in any of the communication majors must earn at least a C- grade in all courses in the major, or repeat them until they do. This includes all courses taken as part of the major, both those in the departmental core (101, 102, 105, 155, 199,201) and those additional courses in one of the five majors.

In addition, students must have, in order to graduate, at least a 2.5 average in the departmental core and in the rest of the courses in their chosen major. This does not include courses taken in the Department of Communication that do not apply to the student's major.

Students are encouraged to supplement their academic work with participation in applied activities, including the Sheldon Multimedia Computer Lab, the campus radio stations (WCVF FM and WDVL Cable/FM), the campus television station (WNYF), the Applied Communication Association (ACA), which provides communication

services to the community, and off-campus internships.

The department offers several awards and scholarships for entering freshmen, continuing students and graduating seniors, including the Louis C. and S. David Adler Scholarship, the Anne Bernstein Memorial Award, the Edward S. Edelman Scholarship, the Arthur R. Mavtum Scholarship, and the Arlie Muller Parks Scholarship.

Requirements for the Bachelor of Science Degree in Communication

Major Requirements: Students in the department may obtain a B.S. degree in one of the following majors:

- Audio/Radio Production
- Communication Studies
- Media Management
- Public Relations
- Television and Digital Film Design and Production

A major program in the Department of Communication requires 39.5 to 46.5 credit hours of study including 15.5 credit hours of core courses required by every student in the department and 24 to 31 credit hours of courses in the individual specialization. A minimum of 18 communication credit hours, including 12 credit hours within the major. must be taken at Fredonia.

Any student wishing to take a double major with both majors inside the communication department must take at least 15 additional credit hours in the second major (i.e., credit hours not used in the first major). Students should be aware that they may have to take more than 120 credit hours in order to accumulate the required 66 credit hours outside the department to araduate.

In addition, the department requires all students to declare and complete a minor or a semester study abroad. The minor must be officially recognized by the offering department and be chosen in consultation with a communication advisor. Students electing the study abroad option are required to complete a complimentary course at Fredonia chosen in consultation with their advisor.

Students who have dual majors with both majors inside the Department of Communication are still required to have a minor outside the department or to meet the criteria for the study abroad option. A second major outside the communication department will also satisfy this requirement.

Substitutions in requirements for majors may be made only by approval of faculty members designated for the specific majors.

Because the department is always trying to improve its academic offerings. course offerings and requirements for the majors may be changed. Students are urged to see the department for the latest requirements.

Communication Core: 15.5 credit hours

COMM 101	Fundamentals of Communication	3
COMM 102	Mass Media and Society	3
COMM 105	Public Speaking	3
COMM 155	Rhetoric of Vision and Sound	3
COMM 199	Communication Orientation (required for new freshmen only)	.5
COMM 201	Rhetoric and Criticism	3

Audio/Radio Production: 40.5 credit Α. hours (including core requirements)

Development of conceptual, aesthetic, and technical skills in audio production for radio and other media. Focus is on listening and the creative use of sound to engage an audience through the selection and use of voice, music, and ambiance. Applications to commercial and public service announcements, news, documentary, drama, music programming, audio art, and audio for television, theater and film.

Requirements:	Hrs.
Communication Core	15.5
Plus Audio/Radio Production Maior credit hours - at least 12 credit hours a Fredonia	-

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Group A - Major Core - 16 credit hours		
COMM 251	Audio Production	
COMM 351	Intermediate Radio	
COMM 420	Production Communication Law and	
	Ethics	
and one of	the following:	
COMM 200	Electronic Media Writing	
	or	
COMM361	Script Writing for Video, Film and Radio	
and one of th	e following	
COMM 395	Radio News	
COMM451	Radio Documentaries	
COMM 456	Radio Programming and	
	Production	

Group B - Major Electives - 9 credit hours choose three of the following:

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COMM 110, COMM 112 and COMM 118 Desktop Presentation, Desktop Video and Desktop Audio - 1 credit each for a total of three		3
COMM 221	Interpersonal Communication	3
COMM 222	Principles of Public Relations	3
COMM 312	Multimedia Integrations	3
COMM 350	Telecommunication Technology	3
COMM 385	International Media	3
COMM 400	Broadcast Station Operations	3
 B. Communication Studies Major: 39 credit hours (including core requirements) 		

Emphasizes the study of human interaction in both mediated and non-mediated communication. Students will study the communication process and its elements across a variety of communication contexts and situations. Courses will cover theories and skills regarding relational development, group decision-making, public speaking, communication ethics, research and evaluation, and organizational communication. The goal of the major is to develop the student's ability to understand and apply theories and skills in communication performance, message construction. and communication analysis and evaluation across social and professional settings.

Requirements: Hrs. **Communication Core** 15.5 Plus Communication Studies Major: 24 credit hours - at least 12 at Fredonia Group A - Major Core - 12 credit hours:

One up D. Maion Electives 40 and the sum			
COMM 430	Communication Theory	3	
COMM 301	Group Communication	3	
	and Survey Methods		
COMM 295	Communication Research	3	
00	Interpersonal Communication	0	
COMM 221	Interpersonal	3	

Group B - Major Electives - 12 credit hours - choose four from the following. Note: Group B courses must be taken after completing COMM 101,201 and Group A.

3	COMM 222	Principles of Public Relations	3
	COMM 310	Language and Communication	3
4 4	COMM 373	Gender and Communication	3
4	COMM 379	Persuasion	3
Τ.	COMM 430	Communication Theory	3
	COMM 458	Special Topics	3
	COMM 460	Organizational Communication	3
	COMM 465	Intercultural Communication	3

	ours (including core ients)	,
non-product media. Inc regulation, broadcast	ts interested in ion areas of electronic ludes sales, manageme promotion, and research and other electronic me able television and satel	ent, n in edia
		Hrs. 15.5 redit
	lajor Core - 15 credit hours from among the following:	; -
	1 18 - Any three of the one lesktop computer courses	3
	Principles of Public Relations	3
COMM 295		3
COMM 350	Telecommunication Technology	3
COMM 385	International Media	3
COMM 400	Broadcast Station Operations	3
COMM 420	Communication Law and Ethics	3
COMM 460	Organizational	3

C. Media Management Major: 39.5

Group B - Major Electives - 9 credit hours choose three from among the following, at least one at 300-400 level:

Communication

COMM 221	Interpersonal Communication	3
COMM 235	Business Communication	3
COMM 301	Group Communication	3
COMM 312	Multimedia Integrations	3
COMM 379	Persuasion	3
COMM 430	Communication Theory	3
COMM 465	Intercultural	3
	Communication	

D. Public Relations Major: 42.5 credit hours (including core requirements)

Focuses on the theoretical constructs and professional skills necessary to effectively mediate the goals and obligations of an organization and the needs and concerns of the public. The emphasis on ethics, campaign design and management and the production of messages for targeted audiences prepares the student to serve as communication advocates in a variety of professional and civic settings.

Requirements:	Hrs.
Communication Core	15.5
Plus Public Relations Major: 27	credit
hours - at least 12 at Fredonia	

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Group A - Major Core - 15 credit hours

COMM 295	Comm. Research &
COMM 222	Survey Methods Principles of Public Relations
COMM 322	Public Relations Writing
COMM 344	Public Relations Case Analysis
COMM 422	Public Relations Management

Group B - Major Electives - 12 credit hours - 6 credit hours at 300 or above level from the following:

COMM 110	Desktop Presentation (recommended)
COMM 114	Electronic Darkroom (recommended)
COMM 116	Desktop Publishing (recommended)
COMM 221	Interpersonal Communication
COMM 235	Introduction to Business Communication
COMM251	Audio Production I
COMM 255	Television Production I
COMM301	Group Communication
COMM 350	Telecommunication Technology
COMM 379	Persuasion
COMM 420	Communication Law & Ethics
COMM 430	Communication Theory
COMM 460	Organizational Communication
COMM 465	Intercultural Communication

 E. Television and Digital Film Major: 45.5 to 46.5 credit hours (including core requirements)

Allows students to learn background theory while developing conceptual and technological skills used in the production of programs both inside the studio and on location. Focus on information gathering, concept development, writing, production aesthetics, ethics, shooting methods, and editing decisions. Applications to documentary, art, drama, news, corporate sports, and other production types.

Requirements:Hrs.Communication Core15.5Plus Television and Digital Film Major:30 or 31 credit hours - at least 12 atFredonia

Group A - Major Core - 15 credit hours		
COMM 251	Audio Production I	
COMM 255	Television Production I	
COMM 354	Video Field Production	
and one of th	e following:	
COMM 200	Electronic Media Writing	
	or	
COMM361	Script Writing for Video,	
	Film and Radio	
COMM 420	Communication Law and	
	Ethics	

Group B - 3 or 4 credit hours - one of the following

COMM 312 Multimedia Integrations COMM 358 Television News

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 Group C - 12 credit hours - one of the following three course sequences - must be taken at Fredonia

 COMM 366
 Video Postproduction
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 COMM 452
 Video Documentaries I
 4

 COMM 462
 Video Documentaries I
 4

	or
COMM 366	Video Postproduction
COMM 454	Video Drama I
COMM 464	Video Drama II

Requirements for the Minor in Communication

A minor in Communication requires, including COMM 101, a minimum of 18 credit hours of courses with 9 being at 300 level or above. A minimum of 9 credit hours must be taken at Fredonia. Advising with the department is strongly recommended.

COMPUTER AND INFORMATION SCIENCES

Office: 223 Fenton Hall (716) 673-3243 E-mail: Computer.ScienceQfredonia.edu H. Joseph Straight, Chairperson Ziya Arnavut, Associate Chairperson

The Department of Mathematics and Computer Science offers a Bachelor of Science degree in Computer and Information Sciences with four study options: Computer Theory (CT), Information Systems (IS), Systems Software (SS), and Computer Applications (CA). The options prepare students for the future by providing a study of the current state of computer science embedded within a well-rounded liberal arts education. As a Computer and Information Sciences maior at Fredonia. a student may select a program that suits his/her career objectives and academic goals.

The department participates in the SUNY Learning Network program. Over the past several semesters, a number of computer science courses have been offered on the Internet. For additional information, students should call 1-800-875-6269 or check the web site at www.sln.suny.edu/sln.

Scholarships available to students in Computer and Information Sciences include the John Beck Scholarship and the Arthur R. Maytum Scholarships. The scholarships are awarded annually on the recommendation of the computer science faculty.

Degree Programs in Computer and Information Sciences

The Computer and Information Sciences program offers a Bachelor of Science degree with four options (tracks):

- Computer Theory (CT)
- Information Systems (IS)
- Systems Software (SS)
- Computer Applications (CA)

All four options contain a common core of fundamental courses in the science of computing, with essential emphasis on theory and practice. Further, courses in the CT track prepare graduates for post-graduate education in computer science and careers in the scientific sectors. The IS track is geared to commercial computer information management and administrative applications. The SS track prepares graduates for systems level programming, design and networking. The CA track emphasizes computer applications with interdisciplinary opportunities in applied mathematics or geographic information systems. Currently, the primaty languages of computer science instruction are C and C++ in the MS Windows and Unix environments.

In addition to the above tracks, the department also offers a minor in Computer and Information Sciences. The department participates in the Cooperative Engineering program; refer to page 27.

For further details about the programs in computer and information sciences, contact Dr. H. Joseph Straight, chairperson of the Department of Mathematics and Computer Science. See page 43 for the programs offered in Mathematics.

Internships

Experiential learning is encouraged through internships. Internships are designed as a way to develop knowledge and gain experience with computer technology in a job setting. Recently, students have successfully completed internships at AL Tech Specialty Steel, Chemical Process Corporation, Ultrapak, Buffalo General Hospital, Cummins Engine, M&T Bank, the Dunkirk and Fredonia Telephone Company, Unisys, Radio Shack, and Brand Names. Several internships pay honorariums or minimum wages. Many other opportunities exist on campus for students to earn money as tutors, laboratory proctors, or computer laboratory assistants.

Computer Laboratories and Equipment

The department manages its own laboratory (CSIT Lab) and has class scheduling rights to another laboratory in Fenton Hall. The CSIT Lab is maintained by a systems administrator and a staff of paid student assistants from the Computer and Information Sciences program. The main equipment in the lab consists of several SUN and SGI workstations running Unix, together with a cluster of 15 Pentium IV workstations running Windows and Linux. A Linux-based cluster of servers connected to a high-speed network provides Internet access. Popular software development tools such as C++, Fortran, Java, Open GL and other utilities are available, in addition to standard Microsoft software packages such as Office 2000 and Visual Studio. The computers in the laboratory are accessible from various locations across the campus, including the dormitories. The other laboratory that is used by the department is primarily an instructional laboratory and houses a network of Intel-based workstations that run under Windows. Both of these facilities are dedicated to supporting instruction in the Computer and Information Sciences program. There are also several other microcomputer laboratories on campus.

Faculty and Student Research and Scholarship

The Computer and Information Sciences faculty and majors are actively involved in various research activities such as participating in international, national, and regional conferences, workshops and seminars, and publishing their work in well-known journals and proceedings. With the cooperation of the Computer Science Club, the department regularly runs joint faculty and student colloquia. Several students have won research paper competitions, and our teams have successfully competed in regional programming competitions. Current areas of faculty and student research are computer networking, image processing, pattern recognition, knowledge engineering, data compression, theoretical computer science, remote sensing, natural languages, and interdisciplinary applications.



Requirements for the Bachelor of Science Degree in Computer and information Sciences

The Bachelor of Science degree in Computer and Information Sciences is built on a required core of course work in computer science, plus a calculus sequence, to which is then added the requirements in the student's selected track.

Computer and information Sciences (CSIT) Core (30 credit hours):

CSIT121	Computer Science I	
		- +
CSIT221	Computer Science II	4
CSIT 231	Systems Programming	3
CSIT241	Discrete Mathematics for Computer Science I	4
CSIT311	Assembly Language and Computer Organization	3
CSIT 321	Paradigms of Programming Languages	3
CSIT341	Data Structures	3
CSIT 425	Software Engineering	3
CSIT 431	Introduction to Operating Systems	3

A. Computer Theory (CT) Track (57 credit hours):

This track is designed for students who intend to pursue graduate education in computer science or who seek careers in scientific computing. The majority of course work in this track is in the area of Theoretical Foundations. The CT track requires the CSIT Core, plus:

MATH 122	University Calculus I	4
MATH 123	University Calculus II	4
CSIT 242	Discrete Mathematics for	4
	Computer Science II	
CSIT 441	Analysis and Design of	3
	Algorithms	
CSIT 443	Theory of Computation	3
	onal courses chosen from:	9
CSIT 413, 43	33, 435, 455,461, 462,	

463

B. information Systems (IS) Track (72-74 credit hours):

This track prepares graduates for careers in information and business systems development, maintenance and management. The majority of course work in this track is in the area of Computer Information Systems, complemented by several required courses in the areas of accounting. economics, and business administration. Specifically, the IS track requires the CSIT Core, plus:

MATH 120	Survey of Calculus I	3
MATH 122 MATH 121	or University Calculus I Survey of Calculus II	4 3
MATH 123 CSIT 205 CSIT 351	or University Calculus II Visual Basic II Business Systems Development	4 3 3
CSIT 455	Relational and Object	3
CSIT 456	Information and Decision Support Systems	3
CSIT 461	or Introduction to AI and Knowledge Engineering	3
	al courses chosen from: 35, 441, 456, 461, 462,	6
ACCT 201 ACCT 202 STAT 200 ECON 202	Financial Accounting Managerial Accounting Statistical Methods Principles of Microeconomics	3 3 3 3
Two courses chosen from: BUAD 300, 6 BUAD 321, BUAD 327, BUAD 427		
C. Systems (55-57 cred	Software (SS) Track it hours):	
systems dev	emphasizes computer relopment, design and It prepares graduates for	

systems-level programming, and for careers in system design, ensembles, architecture, and networking. The majority of course work is in the area of Computer Systems Software. The SS Track requires the CSIT Core, plus:

MATH 120	Survey of Calculus I or	3
MATH 122	University Calculus I	4
MATH121	Survey of Calculus II or	3
MATH 123	University Calculus II	4
CSIT 242	Discrete Mathematics for Computer Science II	4
CSIT 413	Computer Architecture	3
CSIT 433	Compiler Construction	3
CSIT 437	Advanced Operating Systems	3

Two additional courses chosen from: 435, 441, 455, 461, 462, 463 CSIT

D. Computer Applications (CA) Track:

The track is designed for students who have interdisciplinary interests and prepares graduates for research and computing applications in other sciences. Currently, GIS and applied mathematics are the two options available, and students in the CA Track complete a minor in one of these areas. Specifically, the CA Track requires the CSIT Core, plus:

For the Applied Mathematics Option (65 credit hours):

MATH 122	University Calculus I	
MATH 123	University Calculus II	
MATH 223	University Calculus III	
MATH231	Linear Algebra	
CSIT 242	Discrete Mathematics for Computer Science II	
CSIT 441	Analysis and Design of Algorithms	
Three additional courses chosen from: CSIT 413, 433, 435, 437, 455, 461, 462, 463		
One additional course chosen from: MATH 325, 329, 331, 335, 359, 375, 440; STAT 350		
	eographic Information ption (69 credit hours):	
MATH 120	Survey of Calculus I	
MATH121	Survey of Calculus II	
CSIT 455	Relational and Object	

Databases CSIT 462 **Computer Graphics** or **Digital Image Processing** CSIT 463

and Computer Vision Two additional courses chosen from: CSIT 225, 413, 433, 435, 441, 461,

462,463 Minor in Geographic Information

Systems (with CSIT 121 substituted for CSIT 106 and CSIT 205 substituted for CSIT 105)

Requireme	nts for the Minor in
Computer	Science
MATH 120	Survey of Calculus I
	or
MATH 122	University Calculus I
MATH121	Survey of Calculus II
	or
MATH 123	University Calculus II
CSIT121	Computer Science I
CSIT221	Computer Science II
CSIT241	Discrete Mathematics for
	Computer Science I
	or
MATH 210	Discrete Mathematics
CSIT311	Assembly Language and
	Computer Organization
CSIT341	Data Structures
Two addition	al courses selected from:
	25, 231, 321, 351, 413,
,	33, 435, 441, 443,455,
456, 461, 46	2, 463, with at least one

of these at the 300-400 level

Total Hours Required:

6

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4

4

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3

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3

3

3

3

3

6

21

Note: A minimum 9 credit hours counted toward the minor must be taken at Fredonia.

Computer and Information Sciences faculty are listed under the Department of Mathematics and Computer Science.

JUSTICE CRIMINAL

Office: W369 Thompson Hall

(716) 673-3421 E-mail: Criminal.JusticeQfredonia.edu

David J. Thomas, Coordinator

The Bachelor of Arts degree program in Criminal Justice is an interdisciplinary curriculum that offers broad based knowledge of crime and delinquency and of the criminal and juvenile justice system. The program comprises courses in the areas of law, police, corrections, crime and crime theory, statistics and research methods, and human behavior. Graduates will be prepared for careers in the field of iuvenile iustice. law enforcement, adult corrections, rehabilitation, crime data analysis and security. Internships are highly recommended. Participating internship sponsors include local police and sheriff departments, the county district attorney, Department of Probation, New York State Department of Corrections, U.S. Customs, and the county Victim/Witness program. In addition to the Core and elective requirements listed below, students are strongly urged to include College Core Curriculum and elective courses that will help develop effectiveness in speaking and in writing. Students are advised to take courses that will enable them to

acquire knowledge of some standard computer software including a word

- processing, spreadsheet, and database 3 program. Also familiarity with
 - bibliographic and data search routines is
- З strongly encouraged.
 - Because this major includes courses
 - from a number of disciplines, students

are strongly advised to complete either 4 a minor or minors in related disciplines or a second major in a related discipline. 4

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30 - 32

Requirements for the Bachelor of Arts Degree in Criminal Justice

Students majoring in criminal justice must complete a minimum of 39 credit hours of course work comprised of 18 hours of core requirements. 6 hours of a statistics-research methods

sequence, and 15 hours of elective credit.

Core Course	s include:	18
CRMJ 100	Introduction to Criminal Justice	3
POLI 277	Introduction to Law or	3
POLI 276	Law and Society	
CRMJ 310	Law Enforcement Policy and Practice	3
CRMJ 320	Crime and Crime Theory	3
SOC 366	Introduction to Corrections	3
CRMJ 400	Senior Seminar	3
The Statistic	s-Research Methods	
sequence ind	cludes:	
SOC 200	Statistics	3
SOC 300	Research Methods	3
	or	
POLI 200	Statistics	3
POLI 210	Research Methods	3
Electives - 1	5 credit hours from among	
the following	courses:	
PHIL 310	Administrative Ethics	
PHIL 362	Philosophy of Law	
PHIL 262	Crime and Punishment	
POLI 311	PublicAdministration	
POLI 370	Constitutional Law	
POLI 371	Civil Rights and Liberties	
POLI 383	Courts and Social Policy	
POLI 363 PSY 246	Personality	
PSY 245	Social Psychology	
PSY 356	Abnormal Psychology	
PSY 358	Psychology and the Law	
SOC 204	Social Psychology	
SOC 303	Social Class and Inequality	
SOC 310	Deviant Behavior	
SOC 311	Sociology of Addiction	
SOC 316	Minorities	
SOC 361	Law in the World	
SOC 363	Victimology	
SOC 364	Juvenile Delinquency	
SOC 365	Family Violence	
SOC 470	Criminal Justice Internship	
SOC 470	Internship Seminar	
000 11	memorip ocnina	

Policy on Transfer Credit into the Major

Transfer students will be required to complete a minimum of 27 (up to 39) credit hours of course work in the Criminal Justice major. This must include all of the courses required for the major. A maximum of 12 credit hours of courses completed elsewhere that are similar to classes in the major that are offered at Fredonia will be accepted toward completion of the B.A. degree in Criminal Justice. To be accepted toward the degree, the student must have completed these courses with a grade of C or better.

Requirements for the Minor in Criminal Justice

The minor in Criminal Justice consists of a minimum of 21 credit hours that must include the following:

CRMJ 100 and at least two of the Core courses required for the major. In addition, among the 21 credit hours, classes must come from at least two of the disciplines that provide courses to the major. Students may transfer up to 6 credit hours of appropriate courses towards completion of the minor.

(Dance, see Theatre and Dance, page 72.)

(Earth Sciences, see Geosciences, page 32).

(Economics, see School of Business, page 12.)

EDUCATION

at

Office: E268 Thompson Hall Phone: (716) 673-3311 E-mail: Education.School@fredonia.edu Barbara Mallette, Interim Director Cynthia Smith, Associate Director

Important Notification to All Education Majors

Fredonia

All programs and degree options in the School of Education lead to New York State Certification. When Fredonia is successful in obtaining accreditation by the National Council for the Accreditation of Teacher Education (NCATE), all programs and degree options will also be held accountable to national standards. As such, any changes made by the New York State Board of Regents as well as the NCATE review board have the potential to impact the requirements of the program. Undergraduate programs are reviewed each semester to check compliance with state certification and national accreditation requirements. Candidates should meet with their faculty advisors and attend all advisement sessions for information on current program and certification requirements to become aware of any programmatic changes.

National Council for the Accreditation of Teacher Education (NCATE)

NCATE is a partnership of over 30 national professional organizations, representing over three million



Americans, who have united to ensure high quality teacher preparation. NCATE ensures that subject matter content, and how to teach it, is the priority. NCATE standards expect the School of Education to base its programs on content and teaching standards set by professional associations in each content area. NCATE also expects candidates to gain a firm foundation in the liberal arts. NCATE endorsement adds credibility and national transportability to SUNY Fredonia certification programs.

Certification Programs

The School of Education offers opportunity for certification in the following areas:

- · Early Childhood Education
- Childhood Education
- Middle Childhood Education — Mathematics Specialist
- Adolescence Education

Early Childhood Education: Preparation to teach very young children, birth through age 8 (B.S. in Ed. degree: Certification Birth through Grade 2).

Childhood Education: Preparation to teach Grades 1 to 6 (B.S. Degree: Certification Grades 1 to 6).

Middle Childhood Education: Preparation to teach middle school mathematics (B.S. Degree: Certification Grades **5** to 9). Core education courses for this degree are taught within both the School of Education and the mathematics department. Candidates in this degree program will be assigned an academic advisor from the mathematics department. For information on this program, students should see the mathematics department degrees and offerings on page 43 of the catalog.

Adolescence Education: Preparation to teach biology, chemistry, earth science, English, French, mathematics, physics, social studies or Spanish (B.A. or B.S. degree: Certification Grades 7 to 12). Core education courses for these degrees are taught within both the School of Education and the academic departments. Candidates in these degree programs will be assigned an academic advisor from the appropriate academic department. For information on any of these programs, students should refer to the appropriate academic department in the catalog.

Program Philosophy and Conceptual Framework for All Certification Programs

All children can learn and they learn best when taught by reflective and responsive educators who carefully assess their instructional competence via reflections upon pupil performance. Responsive educators act upon information gleaned from their professional reflections; they make informed decisions and adjust instruction to enhance pupil progress.

All candidates in the School of Education complete a series of four field-based experiences. Each field-based experience is taught in conjunction with a required education course to better establish the link between theory and practice. Each of the field experiences is highly structured, well supervised, and intended to provide multiple opportunities for candidates to *Plan, Instruct, Reflect, and Respond.*

Candidates enroll in course work related to child and adolescent development, psychology in the classroom, and pedagogical strategies, as well as liberal arts and discipline-specific content courses. All of the courses strengthen the candidates' *Four Pillars of Understanding-Knowledge*, Pedagogy, Diversity, and Professionalism—which in turn support the process of effective planning, instructing, reflecting, and responding.

Course work and instruction are rooted in a strong foundation of research-based practices and strategies, contextual factors that influence instruction, and standards for teaching and learning.

Requirements for All Certification Programs

Candidates in the School of Education are regularly monitored and evaluated throughout the program via Gated Assessment degree-specific Models. Each model includes a sequenced series of gates that must be passed through in order for a candidate to remain in good standing in the program. Specific requirements and deadlines, minimal satisfactory performance levels (including grade point average requirements), and remediation plans are detailed in the models. All candidates should obtain a copy of the appropriate Gated Assessment Model from an academic advisor and become familiar with the requirements established therein.

Note: Candidates transferring into a certification program (both internally and externally) must pass through each of the aforementioned gates regardless of the candidate's academic standing at the time of transfer.

Candidate Disposition for All Certification Programs (under review) Candidates in professional education are expected to demonstrate a set of values and attitudes consistent with the highest professional standards. The values and attitudes must be demonstrated in concrete ways in their interactions with members of the faculty, school personnel, and most particularly with students. Candidates are expected to demonstrate the following dispositions:

- An ability to evaluate students' achievement of learning outcomes and a willingness to reshape instruction accordingly;
- A willingness to seek a match between students' needs and teachers' objectives, methods, and materials for instruction that places students' needs at the center of the curriculum;
- A conviction that teachers help students grow by encouraging creativity;
- Sensitivity to the impact that events and developments in the world outside the school have on teachers, their colleagues, their students, and the curriculum;
- Evident enthusiasm for teaching, learning, and their subject matter;
- A belief in the learning potential of all students;
- An acceptance of supervision and constructive criticism;
- The desire to improve one's own teaching, and an active interest in seeking constructive criticism toward that end;
- An enjoyment of working with young people;
- Ongoing commitment to continuing professional development;
- Maturity and dependability;
- Respect for the confidentiality of students' information;
- Pride in teaching;
- A commitment to the concept of a community of learners and

interaction with instructors as a member of such a community;

- Recognition of his or her personal strengths and weaknesses and the desire to improve his or her preparation to teach;
- The ability to handle problems calmly and effectively;
- The recognition of the importance of, and a desire to participate in, state and national associations, workshops, and activities; and
- · Personal integrity.

Inappropriate behaviors may warrant remediation, probation, or dismissal from the program.

Candidate Organizations for All Certification Programs

Within the School of Education, a dynamic and active Teacher Education Club offers activities for majors that enhance opportunities for academic, personal, and professional growth.

The School of Education also houses the Zeta Upsilon Chapter of the International Honor Society in Education, Kappa Delta Pi. This invitation-only, service-orientated organization provides multiple opportunities for professional growth.

International Exchange Program

Upon completion of degree requirements, candidates can experience a cultural and educational exchange with either Rolle College in Exmouth, England, or Swansea Institute in Swansea, Wales. This five-week experience includes classroom experience in the United Kingdom, organized cultural excursions, and free travel time for individual development. Candidates earn 3 hours of graduate course credit.

Special Requirements for All Certification Programs

Identification of Child Abuse and Malfreatment

All persons applying for certification on or after January 1,1991 are required to complete a minimum of two contact hours of course work or training in the identification and reporting of child abuse and maltreatment. This requirement can be met by satisfactory completion of EDU 224, EDU 225 or EDU 349, or by completing a stateapproved training workshop. School Violence Intervention and Prevention

All persons applying for certification on or after February 2, 2001 are required to complete a minimum of two contact hours of course work or training in the warning signs related to violence and policies related to safe climates, and effective classroom management.

Requirement Foreian Language Candidates in all education programs are required to demonstrate competence in a foreign language. This requirement must be satisfied in any one of the following four ways: (1) completion of course work at the 116 level at SUNY Fredonia, (2) transferring of two successful college semesters, (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing Regents score (65 or higher). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

Fingerprinting and Criminal Background

Legislation effective July 1, 2001, requires that all applicants for initial certification and all new school employees be cleared through FBI fingerprinting and criminal background check. The candidate incurs the costs for the fingerprinting and the background check. Current forms and regulations are available at www.highered.nysed.gov/tcert.ospra.

New York State Certification Examinations Candidates for Initial teacher successfully certification must York State Teacher complete the New Certification Examinations: Assessment of Teaching Skills-Written, Liberal Arts and Sciences Test, and the Content Specialty Test.

Course Requirements

Childhood Education:

The program is currently under review. Students should contact the School of Education for updated requirements. Hrs. EDU 105/ Introduction to 3 Contemporary Education 106 Developmental EDU 225 3 Psychology EDU 250/ Introduction to the 3 Exceptional Learner (F) 251

EDU 276	Foundations of Integrated Literacy & Technology in	3
EDU 305/ 313	the Elem. School Cultural & Linguistic Diversity In the Classroom	3
EDU 349	(F) Educational Psychology	3 1
HLTH 300	Education in Drugs, Alcohol, & Tobacco	1
MAED 301	Math for School Teachers 1	3
MAED 302	Math for School Teachers II	3
	um of 7 credit hours in two different	7
(Note: SCI multi-disciplina can be taken	courses are considered ary—all 7 credit hours in SCI) a of concentration 30-	37
(F) designate experience	es courses that have a field component.	
Childhood Year Metho	Education Professional ods and Student Teaching	9
EDU 402	Teaching Mathematics in the Elementary School	3
EDU 403	Teaching Science in the Elementary School	3
EDU 404	Teaching Social Studies in the Elementary School	3
EDU 405	Literacy I	3
EDU 406	Literacy II	3
EDU 416	Capstone Seminar-	3
	Advanced Study in Classroom Organization, Management, and Instruction	0
EDU 420	Student Teaching-Primary	6
EDU 422	Student Teaching- Intermediate	6
Fredonia/Har	mbura Teacher Educat	ion

Fredonia/Hambura Teacher Education Center The School of Education and the Hamburg Central School District have cooperated in developing an innovative teacher education program for Childhood Education that combines the Professional Methods Semester course work and the student teaching experience during a full year internship Fredonia/Hamburg Teacher at the Education Center. This program Distinguished received the Program Award in 1985 from the National Association of Teacher Educators. Further information this concerning program can be obtained from the Director of the School of Education and/or the Director of the Office of Field Experiences.

Childhood Early Education The program is currently under review. Students should contact the School of Education for updated requirements. Hrs. EDU 105/ Introduction to Contemporary 3 106 Education (F) EDU 214 Children's Literature 3 EDU 220 Child Development/Observation/ Assessment З ٥r EDU 225 Developmental Psychology EDU 250/ Introduction to the 3 251 Exceptional Learner (F) EDU 276 Foundations of Integrated 3 Literacy & Technology in the Elementary School EDU 305/ Cultural & Linguistic 3 Diversity in the Classroom 313 EDU 312 Infant/troddler Care and 3 Education (F) EDU 314 Developmental Learning and Child Abuse Workshop 3 or EDU349 Educational Psychology and Child Abuse Workshop Education in Drugs, **HLTH 300** 1 Alcohol and Tobacco **MUED 315** Music, Play and Self 3 **MAED 301** Math for School 3 Teachers 1 Math for School MAED 302 З Teachers II 7 Plus a minimum of 7 credit hours in science from two different departments. (Note: SCI courses are considered multi-disciplinary - all 7 credit hours can be taken in SCI). 30-37 Plus an area of concentration. (F) designates courses that have a field experience component. Early Childhood Education Professional Year Methods and Student Teaching EDU 402 Teaching Mathematics in 3 the Elementary School Е

	the Liementary School	
EDU 405	Literacy I	3
EDU 406	Literacy II	3
EDU 412	Integrated Methods for Early Childhood Education	6
EDU 416	Capstone Serninar — Advanced Study in Classroom Organization, Management, and Instruction	3
EDU 432	Building Home-School Partnerships in Diverse Society	3
EDU 421	Student Teaching in Early Childhood Education I	6
EDU 423	Student Teaching in Early Childhood Education II	6

EDUCATION 23

Areas of	Concentration	
Art Concent	tration (30 credit hours)	
<i>Studio Art</i> (6 ART 150 ART 155	credit hours) Drawing I 2-Dimensional Design	3 3
Foundations ART 115	of Art History (6 credit hours Masterpieces to 1400) 3
ART 116 Art History (Masterpieces from 1400 (18 credit hours)*	3
	the following: Art and Reality-19th Cent. America	3
ART 325 ART 327 ART 345	Italian Renaissance Art Baroque Art Colonial American Architecture	3 3 3
ART 351 ART 441 ART 441 ART 451 ART 494	Special Topics: Art History Directed Study: Art History Directed Studio: Projects Modern Architecture Independent Study: Art	3 3 3 3 3
'Minimum of	History 6 credit hours at the 400 leve	el
Biology Cor	ncentration (33 credit hours)	
BIOL 110 BIOL 141	Human Biology Plant Diversity &	3 3
BIOL 142	Ecosystem Biology Plant Diversity & Ecosystem Bio (Lab)	1
BIOL 144 BIOL 145	Animal Biology & Evolution Animal Biology & Evolution (Lab)	3 1
BIOL 330 BIOL 331	General Ecology General Ecology Lab	3 1
Plus 6 electiv 330 and/or 4	ve hours in Biology at the 100 level by advisement	6
SCI 301	Science for Elem. School Teachers I	3
SCI 303	Science for Elem. School Teachers II	3
SCI 302/ 304	Science for Elem. School Teachers (Lab)	1
SCI 325 EDU 403	Science Teaching Assistantship Labs Teaching Science in the	2 3
	Elem. School	Ū
Chemistry C	Concentration (34 credit hou	,
CHEM 115 CHEM 125 CHEM 116 CHEM 126 CHEM 215 CHEM 216 CHEM 216 CHEM 226	General Chemistry I General Chemistry I (Lab) General Chemistry II General Chemistry II (Lab) Organic Chemistry I (Lab) Organic Chemistry I (Lab) Organic Chemistry II Organic Chemistry II (Lab)	3 1 3 1 3 1 3 1
	ve hours in Chemistry at or 400 level by	6
SCI 301	Science for Elem. School Teachers I	3
SCI 303	Science for Elem. School Teachers II	3

SCI 302/	Science for Elem. School	1
304 SCI 325	Teachers (Lab) Science Teaching	2
001 020	Assistantship Labs	2
EDU 403	Teaching Science in the Elem. School	3
Earth Scio	co Concontration	
(32-33 credit	nce Concentration hours)	
GEO 160	Oceanography	3
GEO 165	Geology I	3
GEO 169	General Geology (Lab)'	1
GEO 210	Geology II*	3
GEO 215 GEO 311	Minerals & Rocks* Global Climate	4 3
GEO XXX		or 4
	Geology elective	
*Prerequisite	or co-requisite - GEO 165	
SCI 301	Science for Elem. School	3
CCI 202	Teachers I Seienee for Flom School	2
SCI 303	Science for Elem. School Teachers II	3
SCI 302/304	Science for Elem. School	1
SCI 325	Teachers (Lab) Science Teaching	2
001 020	Assistantship Labs	2
EDU 403	Teaching Science in the	3
	Elem. School	
English Cor	ncentration (30 credit hours	s)
ENGL 357	Literacy, Language &	3
	Reading	3
ENGL 358	Comp. for El. Ed. Teachers	3
	f the following:	9
ENGL 205	Epic & Romance	
ENGL 207 ENGL 209	Drama & Film Novels & Tales	
ENGL 209 ENGL 211	World Poetry	
	tive hours in English at the	45
	100 level by advisement	15
Franch Con	centration (30 credit hours	`
		,
FREN 215 FREN 216	Intermediate French I Intermediate French II	3 3
FREN 317	French Conversation	3
FREN 318	French Composition	3
FREN 319	Survey of French	3
FREN 421	Literature I Advanced French	3
FREN 421	Pronunciation	3
Plus one of	the following:	3
FREN 315	French Masterpieces I	5
FREN 316	French Masterpieces II	
Plus 9 electiv	ve hours in French at the	9
	100 level by advisement	-

Mathematics Cond (34-36 credit hours)	centration	
	matics for School	4 3
	matics for School	3
	natics for School	3
Teacher MAED 310 Readin Mathem	g and Writing	3
	re for Mathematics	3
	Action Mathematics?	3
One of the following MATH 120/ Survey 121		6
MATH 122/ Universi 123	ty Calculus 1/11	8
	cal Methods ility and Statistics	3
EDU 402 Teachin Elem.		3
Music Concentratior	n (32 credit hours)	
MUS 122Aural TMUS 123WrittenMUS 124WrittenMUED 315Music,MUS 450Dir. StructureMUS 451Dir. Structure	heory II Theory I Theory II Play, & Self udies anship I/Obs.)	2 2 2 2 2 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2
Plus any four Music the 300 and/or 400 le advisement	History courses at 12	2
MUS 218 Piano (MUS 317 Piano (Class Class Inter. Class Inter. Class Adv.	1 1 1 1
Plus either: MUED 210 Guitar		1
and MUED 21 1 Guitar		1
or MUTY 270 Social	Instruments	2
Non-Sci	n. Physics for 3 . Majors	3 3
PHYS 122 College	Physics I (Lab)	1 3
PHYS 124 College PHYS 311 Acoustic	Physics II (Lab)	1 3 3

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One of the following sequences:	
MATH 120/ Survey of	6
121 Calculus I/II MATH 1221 University	8
123 Calculus I/II SCI 301 Science for Elem. School Teachers I	3
SCI 303 Science for Elem. School	3
Teachers II SCI 3021 Science for Elem. School 304 Teachers (Lab)	1
SCI 325 Science Teaching	2
Assistantship Labs EDU 403 Teaching Science in the Elem. School	3
Social Studies Concentration	
(33 credit hours) HIST 105 U.S. History to 1877	3
HIST 106 U.S. History since 1877	3
Plus one of the following: POLI 120 American Politics POLI 150 U.S. & World Affairs	3
Plus one of the following sequences:	6
HIST 115 Western Civ. I and	
HIST 102 World History II or	
HIST 116 Western Civ. II and	
HIST 101 World History I	
Plus one of the following: POLI 321 Political Parties & Interest Groups	3
POLI 323 Elections in America	
POLI 324President & CongressPOLI 356U.S. Foreign Policy	
POLI 370 American Constitutional	
Law POLI 371 Civil Rights & Liberties	
Plus a course in each of the following	
at the 300 level or above: One course in American Minority Studies	3
One course in Non-Western Studies	3
One course in European Studies One course in US. History	3 3
One course in OS. Thistory	5
EDU 404 Teaching Social Studies in Elem. School	3
Spanish Concentration (30 credit hours	,
SPAN 215IntermediateSpanish ISPAN 216IntermediateSpanish II	3 3
SPAN 315 Intro. Hispanic Literature	3
SPAN 317SpanishConversationSPAN 318SpanishComposition	3 3
Plus 15 elective hours in Spanish at	15
the 300 and/or 400 level by advisement	

& Child Abuse WorkshopEDU 321Teaching in the Middle SchoolPlus one of the concentrations as listed below:English Concentration (36 credit hours)ENGL 355Adolescent Literature ReadingENGL 357Literacy, Language & ReadingENGL 358Comp. for El. Ed. TeachersPlus three of the following: ENGL 205Epic & Romance ENGL 207ENGL 207Drama & Film ENGL 209ENGL 211World PoetryPlus 18 elective hours in English at the 300 and/or 400 level by advisementFrench Concentration (36 credit hours)FREN 215Intermediate French I EREN 317FREN 318French Conversation Literature IFREN 319Survey of French Literature IFREN 421Advanced French Pronunciation	e School Extension
Childhood Education program can extend their certification via the Middle School Extension by completing (a) two (2) additional courses in professional education and (b) an enhanced concentration in English, French, Mathematics, Social Studies, Spanish, and Science (Biology, Chemistry, or Geosciences). EDU 224 Adolescent Development & Child Abuse Workshop EDU 321 Teaching in the Middle School Plus one of the concentrations as listed below: English Concentration (36 credit hours) ENGL 355 Adolescent Literature ENGL 357 Literacy, Language & Reading ENGL 358 Comp. for El. Ed. Teachers Plus three of the following: ENGL 205 Epic & Romance ENGL 207 Drama & Film ENGL 209 Novels & Tales ENGL 211 World Poetry Plus 18 elective hours in English at the 300 and/or 400 level by advisement French Concentration (36 credit hours) FREN 215 Intermediate French I FREN 317 French Conversation FREN 318 French Composition FREN 318 French Composition FREN 319 Survey of French Literature I FREN 421 Advanced French 3	Middle School Extension
& Child Abuse Workshop EDU 321 Teaching in the Middle School Plus one of the concentrations as listed below: English Concentration (36 credit hours) ENGL 355 Adolescent Literature ENGL 357 Literacy, Language & Reading ENGL 358 Comp. for El. Ed. Teachers Plus three of the following: ENGL 205 Epic & Romance ENGL 207 Drama & Film ENGL 209 Novels & Tales ENGL 211 World Poetry Plus 18 elective hours in English at the 18 300 and/or 400 level by advisement Terench Concentration (36 credit hours) FREN 215 Intermediate French I Terench Conversation FREN 317 French Conversation Terench Conversation FREN 318 French Composition Terench Conversation Terench Conversation FREN 319 Survey of French Terench Conversation Terench Conversation	 bood Education program can d their certification via the Middle I Extension by completing (a) (2) additional courses in sional education and (b) an ced concentration in English, h, Mathematics, Social Studies, sh, and Science (Biology,
below: English Concentration (36 credit hours) ENGL 355 Adolescent Literature ENGL 357 Literacy, Language & Reading ENGL 357 Literacy, Language & Reading ENGL 358 Comp. for El. Ed. Teachers Plus three of the following: Second ENGL 205 Epic & Romance ENGL 207 Drama & Film ENGL 209 Novels & Tales ENGL 211 World Poetry Plus 18 elective hours in English at the 300 and/or 400 level by advisement 18 French Concentration (36 credit hours) 18 FREN 215 Intermediate French I 30 FREN 317 French Conversation 31 FREN 318 French Composition 33 FREN 319 Survey of French 20 14 Literature I 17 16 FREN 421 Advanced French 32 33	& Child Abuse Workshop 321 Teaching in the Middle 3
ENGL 355Adolescent LiteratureENGL 357Literacy, Language & ReadingENGL 357Comp. for El. Ed. TeachersPlus three of the following:Second EnGL 205ENGL 205Epic & RomanceENGL 207Drama & FilmENGL 209Novels & TalesENGL 211World PoetryPlus 18 elective hours in English at the 300 and/or 400 level by advisementFrench Concentration(36 credit hours)FREN 215Intermediate French I Strench ConversationFREN 317French CompositionFREN 318French CompositionFREN 319Survey of French Literature IFREN 421Advanced FrenchFREN 421Advanced French Pronunciation	
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FREN 421 Advanced French C Pronunciation	319 Survey of French 3
	421 Advanced French 3
Plus one of the following: C FREN 315 French Masterpieces I FREN 316 French Masterpieces II	315 French Masterpieces I
Plus 15 elective hours in French at the 15 300 and/or 400 level by advisement	

Mathematics Concentration	
(41-43 credit hours) MATH 210 Discrete Math	4
MATH 231 Linear Algebra	4 3
MATH 341 Geometry MATH 381 History of Mathematics	
MAED 301 Mathematics for School Teachers I	
MAED 302 Mathematics for School Teachers II	1 3
MAED 303 Mathematics for School Teachers III	3
MAED 310 Reading and Writing Mathematics	3
One of the following sequences: MATH 120/ Survey of	6
121 Calculus 1/11 MATH 1221 University	8
123 Calculus I/II	
One of the following: STAT 200 Statistical Methods	3
STAT 350 Probability and Statistic	s
Plus one MATH or STAT course at th 300 or 400 level as advised	
EDU 402 Teaching Mathematics Elem School	in 3
Note: Candidates who complete MAT 122/123 or MATH 120/121/124 qualif Minor in Mathematics. This minor must be declared.	ΓΗ γ for a
Social Studies Concentration (39 credit hours)	
HIST 105 U.S. History to 1877 HIST 106 US. History since 1877	3 7 3
Plus one of the following: POLI 120 American Politics POLI 150 U.S. & World Affairs	3
Plus one of the following sequences: HIST 115 Western Civ. I	6
and HIST 102 World History II	
or HIST 116 Western Civ. II	
and HIST 101 World History I	
Plus one of the following:	3
HIST 261 Islamic Civilization HIST 264 East Asian Civilizations	
HIST 272 Africa to 1800	
HIST 273 Africa since 1880 HIST 282 Pre-Columbian & Color	nial
Latin America HIST 283 Revolution & Reform in Latin America	
Plus one of the following: POLI 321 Political Parties & Inter-	3 est
Groups POLI 323 Elections in America	
POLI 324 President & Congress	
POLI 356 U.S. Foreign Policy POLI 370 American Constitutiona	I
Law POLI 371 Civil Rights & Liberties	

60 credit hours. However, declaration of an adolescence curriculum code does not guarantee admission to methods and student teaching.

Eligibility for Methods and Student Teaching Adolescence Education

Students are responsible for contacting the Office of Field Experiences during the first week of classes in the spring semester of the year prior to the Professional Year, to apply for student teaching. Applications for student teaching must be submitted by the deadline. Students should refer to the departmental Gated Assessment Model for specific criteria regarding entrance into student teaching.

Honors and Awards

Academic Excellence in Childhood & Early Childhood Education

Eligibility (1) acceptance to the Professional Year program, (2) an overall GPA of 3.2 or higher, (3) a minimum of a B+ in each education course taken during the freshman, sophomore and junior years, and (4) a minimum of 12 credits in education courses taken at SUNY Fredonia.

Selection process: final decision as to the actual recipients rests with the School of Education Honors and Awards Committee. If needed, input may be requested from the faculty of the School of Education.

Honors in Childhood and Early Childhood Education Methods

Eligibility: the candidate must receive an A in each methods course taken during the Professional Year program.

Selection process: final recipients will be decided by a vote of the Professional Year faculty based upon evidence of exceptional work done by the candidate during methods courses.

Excellence in Student Teaching

Eligibiity. (1) the candidate must be nominated as showing "exceptional promise" across all student teaching experiences, and (2) the candidate must be nominated as being an "exceptional beginning teacher" durina the spring semester student teaching experience.

Selection process: (1) in the fall the college supervisors will submit nominations of student teachers whom they consider to have shown "exceptional promise" of continued

<i>Plus</i> a course in each of the following at th 300 level or above:	е
One course in American Minority Studies	3
One course in Non-Western Studies	3
One course in European Studies	3
One course in U.S. History	3
One course in History or Political Science	3
EDU 404 Teaching Social Studies in Elem. Sch.	3
Spanish Concentration (36 credit hours)	
SPAN 215 Intermediate Spanish I	3
SPAN 216 Intermediate Spanish II	3
SPAN 315 Intro. Hispanic Literature	3
SPAN 317 Spanish Conversation	3
SPAN 318 Spanish Composition	3
SPAN 319 Survey of Spanish	3
Literature	0
SPAN 320 Survey of Spanish Literature II	3
SPAN 325 Survey of Spanish American Lit.	3
SPAN 421 Adv. Spanish Phonetics & Diction	3
Plus 9 elective hours in Spanish at the 300 and/or 400 level by advisement	9
300 and/or 400 level by advisement Eligibility for Methods and Student	9
300 and/or 400 level by advisement	9
300 and/or 400 level by advisement Eligibility for Methods and Student Teaching	9
300 and/or 400 level by advisement Eligibility for Methods and Student Teaching Childhood and Early Childhood The Professional Year	9
300 and/or 400 level by advisement Eligibility for Methods and Student Teaching Childhood and Early Childhood The Professional Year The Professional Year is a fall entry	9
300 and/or 400 level by advisement Eligibility for Methods and Student Teaching Childhood and Early Childhood The Professional Year The Professional Year is a fall entry program that consists of eight (8)	9
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Assessment Model on the School of Education website for the criteria used to enter the Professional Year.

The prerequisite for entering student teaching and remaining in fhe Professional Year is the successful completion of all methods classes. While in the Professional Year, students must maintain the required cumulative grade point average.

Adolescence	Education
Course F	Requirements
English (35 ENGL 101	credit hours) Introduction <i>to</i> English Education (F)
ENGL 103	Readings and Observations in English Education (F)
ENGL 250	Literacy and Technology
ENGL 355 EDU 224	Literature for Adolescents Adolescent Development and Child Abuse
EDU 250	Workshop Introduction to the Exceptional Child (F)
EDU 349	Educational Psychology and Child Abuse Workshop
EDU 419	Adolescence (Secondary) Methods <i>Fall</i> Semester
EDU 430	only (F) Student Teaching in the Secondary School Spring Semester Only
(F) indicates	Early Field Experiences

French, Spanish, Mathematics, all

Sciences,	Social Studies (36 credit hours)
EDU 105	Introduction to Contemporary Education
EDU 224	(F) Adolescent Development and Child Abuse Workshop
EDU 250	Introduction to the
EDU 276	Exceptional Child (F) Foundations of Literature and Technology in the Elementary School
EDU 305	Cultural and Linguistic Diversity in the Classroom
EDU 349	(F) Educational Psychology and Child Abuse Workshop
EDU 419	Adolescence (Secondary) Methods <i>Fall</i> Semester
EDU 430	Only (0 Student Teaching in the Secondary School Spring
(F) indicate	Semester Only

(F) indicates Early Field Experiences

Entrance into Adolescence Certification Education Program

Adolescence Education students are majors in the department of their certification area, Students are encouraged to declare their intent in an adolescence certification curriculum upon entering the college. However, this may be done later by meeting with the department chair. It is recommended that this change be made no later than Nov. 1 of the year in which the student will have earned

EDUCATION 25

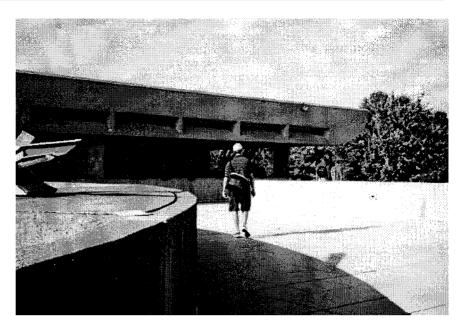
growth as future classroom teachers, (2) in the spring, the college supervisor, using the nomination checklist supplied by the Office of Field Experiences, will submit nominations of student teachers whom they consider to be "exceptional beginning teachers, and (3) all nominees will be reviewed by the Professional Year faculty and listed under the categories "definite" or "marginal." Their recommendations will be given to the Honors and Awards Committee who will make the decision as to the final recipients of the award.

Tuition Remission Awards in Childhood and Early Childhood Education

Eligibility candidates who have received Academic Excellence in Childhood Education Award or Early Childhood Education Award and/or who are on the fall list for Honors in Childhood Education Methods or Early Childhood Education Methods.

Selection process: (1) the Professional Year faculty will submit the list of candidates under consideration for Honors in Childhood Education Methods or Early Childhood Education Methods to the Honors and Awards Committee, (2) notification of eligible candidates by mail will be made within the following week, (3) eligible candidates will be told for which award they are being considered and requested to write a one-page letter justifying their selection, and (4) the Honors and Awards Committee will make its decision as to the award recipients and notify the Fredonia College Foundation. The following awards are included in this category:

- Anthony M. Deiulio Memorial Scholarship
- · Helen Kelly Lillie Award
- Floyd and Mabel Melvin Scholarship Fund
- Byron and Carrie Record Scholarship
- · Marjorie E. Woods Scholarship.



Cash A wards in Childhood and Early Childhood Education

Eligibility: candidates who have received Academic Excellence in Childhood Education Award and/or who have received Honors in Childhood Education Methods.

Selection process: (1) at the end of the second semester methods classes of the Professional Year program, faculty will submit to the committee the names of those candidates who are under consideration for Honors in Childhood Education Methods, and (2) the Honors and Awards Committee, taking into consideration the specific requirements of the individual awards, will decide the recipients. The following awards are included in this category:

- Fanny Bartlett Award (Alumni Association)
- Louis E. Raths Award (Early Childhood Education, even years)
- Helen Buderkin Award (Early Childhood Education, odd years)
- Carol Scrace Pierce Award (Exceptional Education).

School of Education A wards for Adolescence Student Teaching

Eligibility each academic department having a Adolescence Education program is eligible to submit the name of one candidate for the award in their discipline (English, French, Spanish, Biology, Earth Science, Chemistry, Physics, Mathematics, Social Studies).

Selection process: nominees will be judged on criteria established by their individual departments to include performance in content and methods classes, as well as student teaching. The winning name from each department will be given to the Honors and Awards Committee for presentation.

Junior Year, Tuition Remission Special Education A wards

Eligiblity the criteria for this award are currently under review.

• Gustave and Geraldine Werner Foundation Scholarship.

Adolescence Education in Social Studies A wards

Included in this category is:

 Terry L. Wolfenden Scholarship Fund.

ENGINEERING (COOPERATIVE)

Office: 121 Houghton Hall (716) 673-3302 E-mail: Cooperative.Engineering@fredonia.edu **Michael Grady,** *Director*

The Cooperative Engineering program takes its name from the academic cooperative agreements between SUNY Fredonia and its affiliated engineering schools. The intent is to combine liberal arts and sciences at Fredonia with engineering at another school, thereby maximizing the student's potential as a member of society and as an employer or employee. The agreements facilitate student transfer and mutual recognition of general education requirements. SUNY Fredonia is currently affiliated in a Cooperative Engineering program with the following institutions:

Case Westem Reserve University (1) Clarkson University (2) Columbia University (3) Cornell University (4) Louisiana Tech University (5) New York State College of Ceramics at Alfred (6) Ohio State University (7) Penn State Erie (8) Rensselaer Polytechnic Institute (9) Rochester Institute of Technology (10) State University of New York at Binghamton (11) State University of New York at Buffalo (12) Syracuse University (13) Tri-State University (14)

The following is a list of the diverse program options available at the engineering colleges, under the Fredonia Cooperative Engineering program, identified by the institution code number given above. As institutions are continually revising and updating their offerings, students are advised to consult with the catalogs of affiliated schools for recent additions and changes.

Aeronautical (2), (9) Aerospace (1), (4), (12), (13) Aerospace & Aviation (7) Applied and Engineering Physics (4) Applied Physics (3), (4) Bioengineering (13) Biological (4) Biomedical (1), (3), (4), (5), (7), (9)

Biomedical Materials Eng. Science (6) Ceramic (6), (7) Chemical (1), (2), (3), (4), (5), (7), (9), (12), (13), (14) Civil (1), (2), (3), (4), (5), (9), (12), (13), (14)Civil and Environmental (7), (13) Computer (1), (2), (3), (4), (8), (10), (13), (14)Computer and Systems (9) Earth and Atmospheric Sciences (4) Electrical (1), (2) (3), (4), (5), (7), (8), (9), (10), (11), (12) (13), (14) Electrical Power (9) Engineering Administration (14) Engineering Mechanics (3) Engineering Physics (1), (7), (9), (12) (13) Engineering Science (9), (13) Environmental (3), (4), (9), (12), (13) Fluid and Thermal Science (1) Food, Agricultural, & Biological (7) Geomatics (7) Glass Science (6) Industrial (3), (5), (12) Industrial and Management (9) Industrial and Operations Research (3) Industrial and Systems (7), (10), (11) Interdisciplinary and Management (2) Manufacturing (13) Materials (9) Materials Science (3), (13) Materials Science and Engineering (3) (4), (6) (7) (1),Mechanical (1), (4, (3), (4), (5), (7), (8), (9), (10), (11), (12), (13), (14) Metallurgical (3), (7) Microelectronic (1 0) Nuclear (9) Operations Research (3), (4) Operations Research and Industrial Engineering (4) Polymer Science (1) Software Engineering (2), (8), (10), (11) Systems and Control Engineering (1), (7) Theoretical and Applied Mechanics (4) Welding (7)

These cooperative arrangements include but are not limited to the popular Three-Two (3-2) option. Briefly, a student in the 3-2 option takes a minimum of 90 credit hours (three years) at SUNY Fredonia in a curriculum, modified specifically for this program, in biology, business administration, chemistry, computer science, economics, English, geology, history, mathematics, mathematics-physics, philosophy, physics, political science, psychology, or sociology. The student then transfers to an affiliated school and completes at least 60 credit hours (two years) in an engineering discipline. When the student completes this five-year option, he/she obtains a baccalaureate from the engineering institution. Provided the student has satisfied Fredonia's remaining requirements at the engineering school, he/she obtains a second baccalaureate; this one from Fredonia according to the curriculum there followed.

It is possible for students who do not wish to major in any one of the specified departments to enter the Interdisciplinary Studies program, which allows the student to design his/her own Cooperative Engineering curriculum. This curriculum will include, but not be limited to, the engineering core and related courses for the engineering college of the student's choice.

Although the popular 3-2 option is considered the basic option for Cooperative Engineering, 2-2, 2-3, 3-3, and 4-2 options are available. The 2-2 and 2-3 options do not lead to SUNY Fredonia degrees; the 3-3 and 4-2 programs do. In many cases the latter will result in a master's degree in engineering in addition to the bachelor's degree from Fredonia.

Suggested Engineering Core:

Core Progra	m:	Hrs.
CHEM 115 -116	General Chemistry I & II	8
-116 MATH 122 -123, 223	and CH 125-126 (Labs) University Calculus I, II, and III	12
MATH 224	Differential Equations	3
PHYS 230 -231	University Physics I and II and PH 232-233 (Labs)	10
PHYS 321 -322	Engineering Mechanics I and II*	8
PHYS 323 -324	Circuit Analysis I & II*	6
ENGL 100	English Composition	3
engineering areas other mechanical PHYS 324 mechanicals Students ar	nterested in electrical may omit PHYS 322; than electrical and engineering may omit (in some cases may omit this also). e encouraged to consu school catalogs for quirements.	lt

Strongly recommended are courses in computer programming such as C/C++ Programming (CSIT 106), Modern

Physics (PHYS 234), and 3 to 6 credit hours of economics. This core, coupled with the departmental and general college requirements, forms the basic curriculum for the three-year program at SUNY Fredonia.

An attractive feature of the 3-2 option is that the final decision regarding the area of engineering usually is not made until the third year, thus providing the student with sufficient experience to make a proper choice. However, it is to the student's advantage to choose the second institution and the area of engineering as soon as possible. To transfer, the student first consults with the Cooperative Engineering director and then applies to one of the affiliated engineering colleges or to any other engineering college of his/her choice. Usually, a favorable letter of recommendation from the director is forwarded for highly motivated students with satisfactory academic records. At the affiliated engineering institution, a SUNY Fredonia student application is given special consideration. However, it should be noted that for Case Western Reserve and Columbia, admission is guaranteed to students with an overall average of B+ (3.3).

Since there are more than 60 baccalaureate programs with numerous concentrations available at the affiliated institutions, and since these curricula are frequently updated, it is mandatory that all students registered in Cooperative Engineering meet the director or authorized designee for advisement each and every semester.

For students interested in transferring to the Cooperative Engineering program either from other Fredonia majors or from other colleges, the following applies:

- The student should have completed sufficient background courses to insure timely completion of the three-year Fredonia component.
- The student should have a cumulative GPA of approximately
 5 or higher. Students should be aware that engineering schools will not accept students with less than outstanding academic records.

A student organization, the Fredonia Engineering and Physics Society, provides a lecture series given by engineers invited from industry as well as from the affiliated institutions, who speak about their work and about engineering careers. The society also provides other extracurricular activities including design projects. Recent projects include the design and construction of a magnetically levitated model train, an optical holography table, and a small robot.

A large number of engineering and engineering-related courses comprising most courses typically taught in the first two years at engineering schools are offered at Fredonia. These include Engineering Mechanics I and II (PHYS 321-322), Circuit Analysis I and II (PHYS 323-324), Thermodynamics (PHYS 330), Digital Logic w/lab (PHYS 326, 328), and Optics w/lab (PHYS 340, 341).

Students should contact the director of the Capperative Engineering program for additional details for the following awards:

- · Herbert P. Carlyon Scholarship
- Cooperative Engineering Scholarship Award

ENGLISH

Office:277 Fenton Hall (716) 673-3125 E-mail: English.Depattment@fredonia.edu

The Department of English offers a broad education in the literature of our own and other times and places, emphasizing critical reading and thoughtful writing. Traditional literary and historical analysis of fiction, poetry, and drama is basic to our discipline, but that study may be extended in many ways. Options include film, cultural studies, language study, pedagogy, and creative writing.

Our graduates work for journals, publishers, business firms, arts organizations, and schools; some may also go on to graduate programs in English, education, American studies, journalism, law, and social work. Others choose to pursue our Master of Arts degree in English or our Master of Science in (English) Education degree.

For the English major, the department offers a varied exposure to literature and criticism through a core of required courses. Internships in English-related fields are also available.

For the English minor, the department offers courses that can easily be organized to complement any major or pre-professional study.

Awards and Scholarships

The department awards several scholarships and prizes recognizing both financial need and superior achievement:

Fall Awards

- Laura D. Foster/Florence
 Jeanetta Dick Literature Award
- Mary Louise White Book
 Awards for First-Year Students

Spring A wards

- John and Eleanor Courts
 Memorial Scholarship
- Crescence Ehmke Graham Scholarship
- The Howard Herkimer & Hildegard Maytum Strong Scholarship
- Henry F. Salerno Scholarship for a Graduating Senior
- Undergraduate Writing Beyond
 First Year Award
- Graduate Writing Award
- Mary Louise White Poetry
 Award
- Mary Louise White Fiction
 Award
- Mary Louise White Creative
 Writing Award

Requirements for the Bachelor of Arts Degree in English (323 liberal arts)

The major in English requires a minimum of 36 credit hours of courses selected according to the outline given below. It also requires the completion of a reflective portfolio. In special circumstances, a particular course requirement may be waived and another course substituted with written approval of the chairperson. Students seeking a waiver of a particular course requirement should consult their advisors; approval for such waivers is granted by the Department of English chairperson or his/her designee.

No more than 6 credit hours earned in any combination of internships and independent studies may be counted toward the major.

Majors in English must complete at least 75 credit hours outside the major in order to graduate. Credit earned for ENGL 100 (English Composition) does not count as part of the major. Exemptions from this policy must be approved by the Department of English chairperson. All students are required to complete a separate minor in another discipline or in one of the interdisciplinary programs. Double majors are exempt from the minor requirement.

Program Outline:

- 1. 15 hours from the following core courses:
- A. Required Core

Three of the following four courses (9 credit hours):

ENGL 205	Epic and Romance
ENGL 207	Drama and Film
ENGL 209	Novels and Tales
ENGL 211	World Poetry
Plus:	-
ENGL 345	Critical Reading
ENGL 400	Senior Seminar

B. Portfolio Completion

ENGL 401 Portfolio Completion

II. 21 credit hours of electives

The required 21 additional credit hours in Department of English courses must include one course in a literary period and one course on a major author. Students are encouraged to take no more than **6** elective credit hours at the 200-level.

English-Adolescence Education (1 20, secondary education)

Candidates in English-Adolescence Education are required to earn at least a C+ in each required English course and in EDU 419, and to maintain an overall GPA of 2.75. In addition to the English courses listed below, English-Adolescence Education majors must also take the following courses, achieving an average of 2.5: EDU 224, EDU 250, EDU 251, EDU 349, EDU 430, and HLTH 300. Also, candidates in Adolescence Education programs are required to demonstrate competence in a foreign language. This requirement must be satisfied in one of the following four ways: (1) completion of coursework at the 116 level or above at Fredonia: (2) transferring of two successful college semesters; (3) scoring at the 50th percentile or higher on the CLEP exam; (4) completion of three years of high school language with a passing Regents score (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

Acceptance into student teaching is contingent upon: (1) completion of all course work for the major before the student-teaching semester; (2) an overall minimum GPA of 2.75; and, (3) a satisfactory personal interview with English-Adolescence Education faculty. Candidates who will be ineligible to student teach will not be permitted to enroll in ENGL 450 or EDU 419.

Program Outline:

I. 24 credit hours from the following core courses:

A. Required Core:

3

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Three of the following core courses (9 hours):	credit	
ENGL 205 Epic and Romance	3	
ENGL 207 Drama and Film	3	
ENGL 209 Novels and Tales	3	
ENGL 211 World Poetry	3	
<i>Plus:</i> Five courses as follows (15 credi hours):	t	
Literary period course	3	
Major author course		
Three English electives	9	

B. Portfolio Completion

ENGL 401 Portfolio Completion 0 Students are encouraged to take no more than 6 elective credit hours at the 200-level.

II. The following English pedagogy courses (17 credit hours):

Candidates in the English-Adolescence Education program may count the following courses as part of the 75 credit hours outside their major discipline: ENGL 250, ENGL 355, ENGL 356, ENGL 357, ENGL 450.

ENGL 101	Introduction to English Education (for first-year
	students)
ENGL 103	Readings and Observations in English Education (for third-year students)
ENGL 250	Literacy and Technology
ENGL 355	Literature for Adolescents
ENGL 356	Teaching Writing in the Secondary School
ENGL 357	Literacy, Language, and Learning Theory
ENGL 450	Seminar for Teachers of English (seniors only)
	wing adjugation and health

III. The following education and health courses (28 credit hours):

EDU 224	Adolescent Development
	and Child Abuse
	Workshop

EDU 250 Introduction to the Exceptional Learner EDU 251 Introduction to the

Exceptional Learner—Field Experience EDU 349 Educational Psychology &

Child Abuse Workshop EDU 419 Secondary School

	Methods	

EDU 430 Student Teaching Grades 15 7-12 HLTH 300 Education in 1

Drugs/Alcohol/Tobacco Note: New York State Regents' revisions of

programs in Adolescence Education may result in changes in the above requirements, and these changes may affect current as well as future English-Adolescence Education majors.

Department of English Honors Program

At the end of the first semester of a student's junior year, students with an English/English Adolescence Education GPA of 3.7 or higher will automatically be invited to enter the Honors program (which means an invitation to write a thesis proposal, name a committee of three, and seek approval for the proposal from the committee).

Students not achieving a 3.7 GPA may petition to enter the Honors program; petitions articulating why the student should be admitted to the program will go to the Scholarly Activities Committee. Students should support their petition with the following evidence:

a) explanation of grades, if pertinent;

b) writing sample;

1

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c) letters of recommendation from departmental faculty (minimum of two).

Consult the Department of English chairperson for guidelines detailing the Honors program in English.

Requirements for Transfer Credit The Department of English at Fredonia requires majors in English to complete at Fredonia a minimum of 24 credit hours of courses applied to the major. Thus, students transferring to Fredonia should normally expect no more than 12 credit hours earned elsewhere to apply to the major in English. Additional hours earned in English may be used as general electives or may be applied, under prescribed conditions, to the College Core Curriculum.

As a rule, the department will not accept credits earned at two-year colleges as equivalents for upper-level courses.

Requirements for the Minor in English

The minor in English requires a minimum of 21 credit hours of courses, no more than 9 credit hours at the 200-level and at least 12 credit hours in courses numbered 300 and above. One of the 200-level courses must be selected from the world literature core, Le., 205 (Epic and Romance), 207 (Drama and Film), 209 (Novels and Tales), 211 (World Poetry). One of the 300-level or above courses must be a criticism/Theory course.

ENGL 100 may not be counted as part of the minor. A maximum of 9 credit hours may be transferred from other institutions toward the minor in English. A maximum of 3 credit hours earned in internships and independent study may be counted toward the minor. A maximum of 6 credit hours may be applied to the minor from the student's major program.

Advising

An assigned faculty advisor will aid each student majoring in English or English-Adolescence Education in completing his or her portfolio. Advisors also help both major and minor advisees in preparing course schedules, understanding requirements, making broad educational decisions, and solving other academic problems. As a further aid, the department regularly publishes a pre-registration *Course Description Booklef* that contains details not found in this catalog-required readings, papers, exams-about courses scheduled each semester.

Course Numbering:

All courses are open to majors and non-majors alike (except for specialized prerequisites or core courses as indicated); however, allowing for correction through advisement and the *Course Description Booklet*, the student may generally assume the following:

- 100 level courses are introductory;
- 200 level courses are survey-introductory;
- 300 level courses focus on education, theory, literary history, and writing:
- 400 level courses are specialized studies of major authors, works and advanced writing:
- 500 level courses are open to undergraduate majors with senior standing (89 credit hours of academic course work) and with permission of the instructor and the chairperson.

ENVIRONMENTAL SCIENCES

Office: 130 Jewett Hall (716) 673-3817 E-mail:EnvironmentalSciences@fredonia.edu Alicia Perez-Fuentetaja, Coordinator

Human population growth requires an ever-increasing amount of natural resources, often resulting in environmental degradation. As a result, the demand for scientists with a background in environmental science is on the rise. The major in Environmental Sciences integrates the principles of the natural sciences to study unsustainable human resource utilization and evaluate the options to mitigate human impact. Environmental sciences are by definition interdisciplinary and broad in nature. In the major, an assessment approach is taken in the study of topics such as species diversity, invasion of non-native species, fate and transport of hazardous substances, point and non-point source pollution, geological processes, hydrological patterns, etc. In the process, students study scientific phenomena and are trained in applications to mathematical modeling, laboratory work, field work and data analysis.

Many of the courses in this major have field components where students collect environmental samples, analyze them, and produce comprehensive interpretations of the data. In addition to the field/laboratory emphasis in the program, a course in methods in environmental analysis is also required in the junior year to learn new field techniques and analytical practices. Students draw on the strengths of SUNY Fredonia's programs in biology, chemistry, geosciences, geographic information systems, and environmental science courses specifically designed for this major. As seniors, students demonstrate their ability to conduct independent work in the environmental sciences through an internship with local conservation departments, industries and municipalities, or through research with a Fredonia faculty member.

Possible careers after completion of this major include, among others, graduate school, management of air and water resources, aquatic and fishery biology, wildlife biology, conservation scientist/Officer, hazardous waste management, and environmental and community planning.

Requirements for the Bachelor of Science/Interdisciplinary Studies Major in Environmental Science

Cara Daguiramanta

A. (Core	Requirements	Irs.
1. E	nviror	mental Sciences (13 credit ho	urs)
ESC	105	Global Environmental Issues	3
ESC	310	Methods in Environmental Analysis	3
ESC	CI 410	Environmental Assessment	3
ESC	CI 440	Environmental Science Seminar	1
ESC	21 490	Environmental Science Practicum	3

11.0



MATH 122/ 123	s (6-8 credit hours) University Calculus I and II (recommended) or	8
MATH 120/ 121	Survey of Calculus I and II	6
BIOL 141/	5 credit hours) Plant Diversity and	4
BIOL 144/	Ecosystem Biology & Lab Animal Biology and Evolution & Lab	4
	General Ecology & Lab	4
BIOL 457	Biostatistics	3
GEO 165 GEO 169 GEO 330	es (12 credit hours) Geology I General Geology Lab Geomorphology Hydrogeology	3 1 4 4
5. Geographic (3 credit hour Any GIS cours		3
	(18 credit hours) General Chemistry I & Lab	4
CHEM 116/	General Chemistry II & Lab	4
CHEM 219	Organic Chemistry	4
	Analytical Chemistry I Environmental Chemistry	3 3
hours): To the consultation on future plat student, such	ended Electives (26 cred be chosen during with faculty advisor base ans and interests of the n as graduate school, vernment, etc.	
BIOL 333	Biochemistry Conservation	3 3
BIOL 420	Population and Community Ecology	3 3

Community Ecology BIOL 424 Aquatic Biology 3 BIOL 427 Fisheries Science 3 CHEM 216 Organic Chemistry II 3 Analytical Chemistry II 3 CHEM 318 Industrial Chemistry CHEM 405 ٦ CSIT 104 Introduction to 3 Microcomputing Software Visual Basic Programming CSIT 105 3 **ECON 201** Principles of 3 Macroeconomics **ECON 202** Principles of 3 Microeconomics ECON 380 Environmental/Natural 3 Resource Economics GIS 301 Geographic Information 3 Systems II GEO 320 Geochemistry 3 Structural Geology GEO 370 З POLI 276 Law and Society 3

3

3

Introduction to Law

Environmental Policy

POLI 277

POLI 387

FILM STUDIES

(Interdisciplinary minor only) Office: E332 Thompson Hall (716) 673-3277 E-mail: Film.Studies@fredonia.edu William Graebner, *Coordinator*

Film is more than a century old, and it is an increasingly popular form of entertainment in the world. It is also a medium capable of serious artistic expression and scholarly analysis. The departments of Communication, English, Modern Languages and Literatures, History, and Political Science regularly offer courses that treat films as a communication medium, an artistic medium, an historical or political document, or a reflection of culture. In any given semester, as many as 200 students may be enrolled in a course in which film is the major topic of study.

The goal of the Film Studies minor is to give students the opportunity to gain a comprehensive understanding of the history, practice, and aesthetics of film in a multi-disciplinary program. The minor will complement majors in English, History, Communication, and other fields, and can prepare students for graduate work in film if coordinated with a major in English or Communication.

Total Hours: Core (6 cred	lit hours):	21
COMM 155		
ENGL 280	or Introduction to Film	3
ENGL 380	Film: Silence to Sound or	3
ENGL 381	Narrative Film After 1940	
COMM 452 Prerequisites: COMM 454 Prerequisites: LANG 385 COMM 360 ENGL 207 HIST 203 HIST 376 Prerequisite: standing POLI 345 Prerequisite: ENGL 386	COMM 155, COMM 354 Video Drama I COMM 155, COMM 354 German Film Mexican Film Drama and Film History through Films (content varies) Film and American Culture HIST 106 or sophomore Film and Politics Junior Standing Women and Film or	
Any course f of the core	rom the core not taken as p	art
Capstone:		
FILM 470	Senior Film Seminar	3

Notes:

No more than four (4) courses may be taken in any one discipline.

To determine if a course not listed above will satisfy requirements for the Film Studies minor, students should contact the Coordinator.

(Foreign Languages, see Modern Languages and Literatures, page 46.)

(French, see Modern Languages and Literatures, page 47.)

FRESHMAN SEMINAR

Office: 810 Maytum Hall (716) 673-3336 E-mail: faulk@fredonia.edu Leonard E. Faulk Jr., Associate Vice President for Academic Affairs and Graduate Dean

Freshman Seminar is a one-credit course that is intended to help incoming freshmen succeed at SUNY Fredonia and become lifelong learners. The course introduces first year students to the academic and social aspects of college life, and is designed to empower students to become successful learners at the collegiate level. Freshman Seminar provides both an introduction to the nature of college education and a general orientation to the functions and resources of the college as a whole. It thus helps first year students adjust to the college, develop a better understanding of the learning process, and acquire basic academic survival skills.

GEOGRAPHIC INFORMATION SYSTEMS

(interdisciplinary minor only)

114 Houghton Hall (716) 673-3884 F-mail GeographicInfotmation.Systems@fredonia.edu Ann K. Deakin, Coordinator

The objective of the Geographic Information Systems minor is to provide an interdisciplinary educational experience that prepares undergraduate students to use Geographic Information Systems (GIS) within their chosen fields of study. A GIS is a computer-based system, comprised of both hardware and software, that enables the collection, integration, analysis, and graphic display of geographically referenced data. It is estimated that as much as 85 percent of a government agency's data is geographic, including, at a minimum, street addresses, political boundaries, postal codes, and latitude and longitude coordinates. Private sector organizations also work with an overwhelming amount of similar kinds of data in their day-to-day operations. With so much geographically-based information, GIS has become essential to the effective operation of both public and private organizations.

The minor will prepare students for careers or graduate study in virtually all areas of the public or private sector where GIS is increasingly in use and critical for efficient management, thorough policy analysis, cost-effective decision making, and GIS display and processing.

The curriculum in this minor is multidisciplinary in content and interdisciplinary in approach, drawing on a variety of disciplines and departments.

Students are required to take 24 credit hours (a minimum of 15 credit hours outside of their major) from among the following courses:

Α.	GIS	Core	Courses:	12	credit	hours	
	requi	red					
CS	IT 10	5 V	isual BAS	IC I			3

3

3

3

0311105	VISUAI DASIC I	
CSIT 106	Scientific Programming	
	Using C++	
GIS 201	Geographic Information	
	Systems	
GIS 301	Geographic Information	

Systems II

	ctive Courses: 6 credit	
	equired	
GIS 350	from the following:	3
GIS 350	Remote Sensing and Image Processing	3
GIS 360	Mapping the Social World	3
GIS 370	Earth Systems Science	3
GIS401	Special Topics in GIS	3
GEO301	Cartography	3
	Callography	U
	iplinary Elective: 3 credit	
	equired	
	required from the following:	
BIOL 330	Introduction to Ecology	3
BUAD 364	Management Information	3
CSIT 205	Systems I Visual BASIC II	2
		3
ECON 330	Public Sector Economics	3 3
ESCI 410	Environmental Risk Assessment	3
GEO 359	Vanishing Earth	3
GEO 339	Resources	5
GEO 330	Geomorphology	3
MATH 231	Linear Algebra	3
POLI 380	Policy Evaluation	3
PSY 373	Human Factors	3
SOC 343	Health Systems and	3
	Policies	
D Practicu	m: 3 credit hours require	Ч
GIS 450	Directed Study	u 3
GIS 480	Independent Study	3
GIS 490		3-6

GEOSCIENCES

Office: 121 Houghton Hall (716) 673-3303 È-mail: Geosciences.Department@fredonia.edu John L. Berkley, Chairperson

The Department of Geosciences offers five degree programs.

The B.S. degree program in Geology is intended primarily for students planning to undertake employment or graduate study in geology or who desire a liberal arts education with an emphasis in geology. Most geologists are employed by private industry - in petroleum, mining, cement, ceramic, sand and gravel, and in environmental and engineering firms. Many work for various federal agencies and the 50 state geological surveys, or are self-employed, often working as consultants. Colleges and universities offer teaching and/or research positions.

The B.S. degree program in Geochemistry, an interdisciplinary program with the Department of Chemistry, prepares the student to undertake employment or graduate study in this field. Geochemists are employed in the mineral resource industries, earth and space sciences, environmental sciences, and several branches of chemical science and technology. In addition to careers in

- industry, geochemists are employed by consulting firms, academic institutions, and the federal
- government.

The B. S. degree program in Geophysics, a joint program with the Department of Physics, is intended primarily for students interested in pursuing a graduate program or employment in geophysics (or

- geology). Career opportunities exist
- within industries, engineering
- consulting firms, and the federal
- 3 government dealing with subjects as
 - diverse as energy, waste
 - management, the environment, natural resources availability, weather
 - forecasting, the prediction of climate
- change, earthquakes, volcanic з
 - eruptions, and planetary science.
- Academic institutions provide teaching 3
- and research opportunities. 3

The B.A. degree program in Earth Sciences is intended primarily for students who want a liberal arts education with a broad emphasis in the several sub-disciplines that constitute the earth sciences. It is useful to those who have career goals in production, technical services, information systems/processing, marketing/scales, administration and/or finance, rather than goals of becoming professional scientists.

The B.S. degree program in Earth Sciences is intended for those students who plan to teach earth science in secondary schools. It includes the fundamental courses in geology, meteorology, astronomy, and oceanography, which constitute the "content" of earth science, and the necessary professional education courses.

Students planning to pursue a career in the earth sciences as professional scientists should earn one of the B.S. degrees in Geology, Geochemistry, and Geophysics rather than the B.A. or B.S. degrees in Earth Sciences, because the former require a more rigorous background in physics and mathematics which is needed to pursue graduate studies in the geosciences or employment as professional scientists.

Teacher Certification: Students who desire to teach earth science in secondary schools may obtain initial certification by completing the B.S. degree program in Earth Sciences with its required professional courses in

GEOSCIENCES

A course in scientific writing, (completion of

CHEM 225, 226, and 290 Introduction to

Research fulfills requirement).

A course in computer science.

(EDU 105, 224, 250, 276, education 305, 349, 419, 430). Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing Regents score (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral. Students are screened by the department chairperson before entering EDU 419.

Students are encouraged to participate in the activities of the Geology Club Society. Geophysics and

The department awards textbook scholarships for academic achievement each semester and annually presents the MacDiarmid Award to the department's outstanding graduating senior, the Paul D. Willette Scholarship to the outstanding junior, the Walther M. Barnard Geosciences Scholarship to the outstanding sophomore, and the Mark D. and April Hoefner Orgren Scholarship to the outstanding freshman. The Susan Mara Scholarship is awarded by the faculty to students deserving of special recognition.

Explanation of geosciences (GEO) course numbers: 1 00-level courses are introductory courses without prerequisites; 200-level courses are general service courses with prerequisites; 300-level courses are upper-level Core College Curriculum courses, and electives and required courses for geosciences majors; and 400-level courses include required and elective courses for majors, generally with high-level or multiple prerequisites.

Laboratory credit: 1 credit hour of laboratory work includes three clock hours in the laboratory per week. Four-credit hour courses in geosciences include 1 credit hour of laboratory work.

Requirements for the Bachelor of Science Degree in Geology

Core Program (39 credit hours in geosciences; 29-30 credit hours in related disciplines):

GEO	165	Geology	1		3
GEO	169	General	Geology	Lab	1

GEO 210 GEO 370 GEO 411 GEO 421 GEO 459 GEO 461 GEO 3XX/ 4XX	Geology II Structural Geology Mineralogy Petrology Seminar in Geosciences Field Geology Elective courses (excludes Internship, Lab Supervision, and more than 2 credit hours of Directed Study; may include up to 4 credit hours in Geographic	3 4 4 1 3 16
	Information Systems courses)	
MATH 122- 123	University Calculus I & II	8
CHEM 115- 116	General Chemistry I & II and CHEM 125-126 (Labs)	8
PHYS 230- 231	University Physics I & II and PHYS 232-233 (Labs)	10
A course	in computer science.	

Geosciences Honors Track: Includes B.S in Geology core program described above, but with the following stipulations for GEO 3XX/4XX electives: 16 credit hours to include GEO 471 Senior Thesis and STAT 250 Statistics for the Sciences. Recommended courses are GEO 445 Internship (up to 4 credit hours) and GIS courses (up to 6 credit hours).

Requirements for the Bachelor of Science Degree in Geochemistry

geosciences; chemistry; 24	n (24 to 25 credit hours 29 to 32 credit hours in to 25 credit hours in cciplines):	in
GEO 165	Geology I	3
GEO 169	General Geology	1
	Laboratory	
GEO 411	Mineralogy	4
GEO 421	Petrology	4
GEO 431	Geochemistry	4
GEO 459	Seminar in Geosciences	1
	or	
CHEM 495	Seminar: Recent	2
and	Advances in Chemistry	
CHEM 496		
GEO 3XW 4XX	Geology electives	8
CHEM 115- 116	General Chemistry I & II and CHEM 125-126 (Labs)	8
	Organic Chemistry I & II	8
216	and CHEM 225-226 (Labs)	-
CHEM 290	Introduction to Research	1
	(recommended)	
CHEM 315-	Physical Chemistry	4
325	(Lecture and Lab)	
CHEM 317-	Analytical Chemistry I & II	9
318	and CHEM 327-328 (Labs)	
PHYS 230-	University Physics I & II	10
231	and PHYS 232-233 (Labs)	
MATH 122-	University Calculus I & II	8
123		

Science De Core Program geosciences;	s for the Bachelor of egree in Geophysics n (23 to 24 credit hours 19 to 21 credit hours in credit hours in related	in
GEO 165	Geology I	3
GEO 169	General Geology Laboratory	1
GEO 215	Minerals and Rocks	4
GEO 335	Geophysics	4
GEO 370	Structural Geology	4
GEO 459	Seminar in Geosciences	1
PHYS 400	Undergraduate Seminar	1
GEO 461	Field Geology	3
GEO XXX	Geology elective	4
PHYS 230- 231	University Physics I & II and PHYS 232-233 (Labs)	10
PHYS 321	Engineering Mechanics I	4
PHYS 330	or Thermodynamics	4
PHYS 331	or Theoretical Mechanics	3
	or	
PHYS 333	Electricity and Magnetism	3
PHYS XXX	Electives from PHYS 321 through PHYS 479	6
MATH 122-	University Calculus I,II & III	12
123-223		_
MATH 224	Differential Equations	3
CSIT XXX	Any course in computer science (pref. CSIT 104)	3
CHEM 115-	General Chemistry I & II	8
116	and CHEM 125-126 (Labs)	
	eomorphology is strongly	
recommended	1.	

Requirements for the Bachelor of Arts Degree in Earth Sciences Core Program (31 to 34 credit hours in

geosciences; 25 to 29 credit hours in related disciplines): Geology I GEO 165 3 General Geology GEO 169 1 Laboratory Geology II GEO 210 3 GEO 215 Minerals and Rocks 4 GEO 370 Structural Geology 4 GEO 459 Seminar in Geosciences 1 GEO XXX Any Geology elective 3 or 4 GEO 3XX/ Two upper-level 6, 7 or 8 Geology electives 4XX Plus, any two of the following: 6 GEO 150 Moons and Planets 3 GEO 160 Oceanography 3 GEO 311 Global Climate 3 GEO 341 Stars and Galaxies 3 CHEM 115-General Chemistry I & II 8 and CHEM 125-126 (Labs) 116 University Physics I & II PHYS 230-10 and PHYS 232-233 (Labs) 231 PHYS 121-College Physics I & II and 8 122 PHYS 123-124 (Labs) MATH elective 3 or 4 MATH any course in calculus 3 or 4 A course in computer science. 3

Requirements for the Bachelor of Science Degree in Earth Sciences Core Program (34-36 credit hours in geosciences; 36 credit hours in education; 26 to 31 credit hours in related disciplines): GEO 150 Moons and Planets 3 GEO 160 Oceanography 3 GEO 165 Geology I 3 GEO 169 General Geology 1 Laboratory GEO 210 Geology II 3 *GEO 215 Minerals and Rocks 4 GEO 311 Global Climate 3 *GEO 330 Geomorphology Δ Two GEO 3XX/4XX electives, as 6,7 or 8 advised

*One course in scientific writing from the following: GEO 335 Geophysics (4): GEO 400 Stratigraphy (4); GEO 370 Structural Geology (4)

EDU 105/	Introduction to	3
106	Contemporary Education	
EDU 224	Adolescent Development and CAW	3
EDU 250/ 251	Introduction to the Exceptional Learner	3
EDU 276	Foundations of Literacy and Technology	3
EDU 305/ 313	Cultural and Linguistic Diversity in the Classroom	3
EDU 349	Educational Psychology	3
EDU 419	Secondary School Methods	3
EDU 430	Student Teaching in Secondary School	15
HLTH 300	Education in Drugs/Alcohol/Tobacco	1
CHEM 115- 116	General Chemistry I & II and CHEM 125-126 (Labs)	8
PHYS 230- 231	University Physics I & II and PHYS 232-233 (Labs)	10
or PHYS 121- 122	College Physics I & II and PHYS 123-124 (Labs)	8

Calculus sequence:

MATH 120/121 Survey of Calculus (6)

MATH 122/123 University Calculus (8) One computer course from the following, as advised:

CSIT 104 Introduction to Microcomputer Software (3)

CSIT 105 Visual Basic Programming (3) CSIT 106 Scientific Program using C++ (3)

CSIT 120 Computer Science Overview (3)

CSIT 121 Computer Science I (4)

Students in all education programs are demonstrate required to competence in a foreign language. This requirement may be satisfied in any one of the following ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50 percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing score on the Regents Exam (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

*Scientific writing/literacy course; fulfills 1/3 of departmental writing requirement.

Requirements for the Minor in Geological Sciences

Twenty-three credit hours in geosciences, including GEO 165, 169 210. and four 4-credit hour courses. as advised, from the 200-300-400 levels.

Requirements for the Minor in Earth Sciences

Twenty-four credit hours in geosciences, including GEO 165 169 160, 210, 215, 311, 150. and one 4-hour course from the 300-400 levels

Geographic Information Systems This program is sponsored jointly by the departments of Geosciences and Interested Political Science. persons should refer to page 32 for a description of the minor.

HEALTH, WELLNESS RECREATION AND Office: 116 Dods Hall

(716) 673-3101 E-mail: Health.Wellness@fredonia.edu Charles C. Davis, Chairperson

INTRAMURALS AND RECREATION

Office: 154 Dods Hall Phone: (716) 673-3590 Janette.Mulka@fredonia.edu E-mail: Janette Mulka, Coordinator

The Department of Health, Wellness Recreation offers and academic that enhance lifetime wellness, classes personal health and well-being, drug prevention courses for Elementary Education majors, and intramural and recreational programs for students. Wellness courses are offered to enhance the quality of life of students and to develop skills in physical activities that can be continued for a

lifetime. Health enhancement courses such as Stress Management. Fitness and Nutrition, and Wellness and encourage Health Promotion students to take an active responsibility in managing their health.

The department also operates a gymnasium-fieldhouse fitness center. complex, natatorium. outdoor tennis courts, basketball courts and playing fields for intramural, recreational and club sports. The department offers an Interdisciplinary minor in Sport and Exercise Studies.

Intramurals and Recreation offers many sports and recreational activities to meet the needs of its student, faculty and staff participants. Our goal is to provide a variety of quality programs in order to foster an interest in a healthy and interactive lifestyle. Intramurals provide a fun way to meet new people, get exercise, and have friendly competitions. We employ 30 students to serve as field supervisors as well as referees. We offer one- to two-day tournaments, and leagues that run four to seven weeks. Women's, men's, and co-ed leagues are available for each sport that is offered. In the fall semester we typically offer sand volleyball, flag football, outdoor soccer, broomball, 3 on 3 basketball tournament, indoor volleyball, indoor soccer euchre tournament, and ultimate frishee The brings about spring semester hockey, basketball, floor wallyball, hockey, roller volleyball, softball, racquetball. and broomball.

The recreation department offers: Blue Devils Fitness Center, two gymnasiums, four racquetball courts, outdoor track, natatorium, indoor and four outdoor basketball courts. and eight tennis courts.

Blue Devils Fitness Center

The Blue Devils Fitness Center is located in Dods Hall and consists of 5,200 square feet of activity space. The fitness center is one of the largest and best-equipped centers in the SUNY educational system. The fitness center offers strength training equipment, power lifting equipment, resistance equipment progressive and cardiovascular training equipment which meets the exercise needs of а variety of recreational as well as highly trained students and athletes. Dods Hall gymnasium is adjacent to the fitness center and consists of over 9,000 square feet of space in which we conduct aerobics and step aerobics classes and a variety of

recreational, intramural and athletic activities. This space can accommodate large fitness classes of over 100 students per class. The department's facility schedule can be accessed through the Fredonia home page.

Steele Hall Fieldhouse

The fieldhouse measures 155 feet x 130 feet (1 9,500) and is capable of seating 3,500 people. The Steele Hall Fieldhouse houses one varsity basketball court, two intramural/recreational courts, four competitive volleyball courts, a four lane all weather indoor track, and a walking aerobic exercise area for students, faculty and staff. This area is also used for special events, the college graduation, and concerts.

Outdoor Tennis And Basketball Facilities

Eight outdoor lighted tennis courts were constructed in 2000. There are two outdoor basketball courts adjacent to the new tennis courts. These additions to our facilities will allow the department to offer beginning, and advanced tennis, recreational and intramural programs and intercollegiate tennis for men and women.

Steele Hall Ice Rink

The Steele Hall Ice Rink measures 200 feet x 85 feet. The rink hosts many student activities including beginning, intermediate and advanced skating classes, figure skating classes. and student club sports such as figure skating and club hockey. Recreational skating is offered to students at no charge on Monday, Friday, Saturday and Sunday evenings.

Natatorium

The natatorium, which officially opened in the fall of 2001, consists of an eight lane competitive swimming pool and separate diving area which houses two one meter and one three meter diving boards. The permanent bleacher area seats 650 people. The pool deck has a special extra wide teaching area. Space is available for on-deck fitness equipment for the training of competitive swimmers. A separate area is available for the SCUBA cascade system which will allow the college to offer both beginning and advanced SCUBA classes. The natatorium programs consist of intercollegiate swimming and diving, beginning, intermediate and advanced swimming classes,

fitness through swim classes, aqua-robics, water polo and water basketball, recreational swim and learn to swim classes. A large meeting-special event room exists adjacent to the natatorium and is available for meetings and special events.

Interdisciplinary Minor In Sport and Exercise Studies

Please refer to the section of this catalog dealing with the interdisciplinary minor on page 68 to view a full listing of course requirements for the three tracks that are offered in the minor.

The Department of Health, Wellness and Recreation offers an interdisciplinary minor in Sport and Exercise Studies. Wellness courses are offered to enhance the quality of life of students and to develop skills in physical activities that can be continued for a lifetime. Health enhancement courses such as Stress Management, Fitness and Nutrition, and Wellness and Health Promotion encourage students to take an active responsibility in managing their health.

The Sport and Exercise Studies interdisciplinary minor has three options. The Athletic Coaching Certification Track (1 8 credit hours), the Sports Administration and Communications Track (23 credit hours) and the Sport and Exercise Sciences Track (23-24 credit hours). Each track will include some required courses, and areas of concentration/specialization where there will be a choice of electives. For each track, the electing of an applied outside experience (i.e., practicum/intership or independent study) will be encouraged. Please refer to the section of this catalog that describes the interdisciplinary minor for a complete description of course requirements for each of the following curriculum tracks.

The Athletic Coaching Track prepares students to meet the New York State established criteria to qualify to coach in elementary and secondary schools and in youth recreation programs. Students can organize 18 credit hours needed for graduation to meet the state mandate for strenuous/contact activities and non-strenuous/noncontact activities. Core courses relate to philosophy, principles and organization of athletics in education; health sciences applied to coaching (e.g. First Aid, Psychology of Coaching, and Adult CPR); and techniques of coaching.

The Sports Administration and Communication Track will expose students to (a) the behavioral dimensions of sport, (b) general management and organizational skills and issues, (c) sport-specific management principles, strategies, and issues (d) marketing, finance, and legal issues and (e) communication and ethical issues.

The course categories included in this track was strongly influenced by the Sport Management Program Standards established by the National Association for Sport and Physical Education and the North American Society for Sport Management. This track will aid in the preparation and viability of students for jobs and graduate work in sports management, marketing, and public relations.

The Sport and Exercise Sciences Track will expose students to scientific principles and issues related to sport and exercise. The contributions of the behavioral, social and physical sciences (psychology, sociology and physiology) will be emphasized. The core courses for this track include Sport Psychology, the Sociology of Sport, and the Physiology of Exercise and Sport. Students will also be required to choose one course in each of the following concentration areas: (a) physiological bases, (b) group and organizational contexts, (c) developmental and educational issues and principles, and (d) personality, assessment, and counseling issues.

The course categories utilized in this track are strongly influenced by the criteria that the Association for the Advancement of Applied Sport Psychology requires for the certification of doctoral-level professional sport consultants. This track will aid in the preparation of students for graduate work dealing with sport and exercise behavior within their discipline (e.g. psychology, sociology, kinesiology, and exercise science). It will also provide important information about sport and exercise behavior for those planning to be coaches, fitness specialists, physical therapists, and athletic trainers.

A maximum of 12 credit hours may be taken in the Sport and Exercise Science track from any one department in fulfilling the requirements of this minor. Basic, intermediate and advanced Wellness Activity courses:

Coed 100 level Wellness courses:

Basic: For individuals having little or no knowledge or skill in the activity. Emphasis is on the development of basic skills and knowledge of the activity.

Intermediate or Advanced: For students who have developed the basic skills and knowledge of the activity. Emphasis in advanced classes is placed on the development of advanced skills and strategies. A student may elect to enroll in 100-level Wellness courses with a maximum of 4 credit hours to be used as elective credit toward a degree. Some activity courses at the 100-level may be repeated for credit by students within the maximum 4 hours of elective credits. The following courses are not repeatable: PHED 102, 103, 104, 105, 106, 107, 109, 120, 128, 134, and 138. The following courses are repeatable one time: PHED 121, 129, and 135.

Students may participate in additional 100-level courses over the allowable maximum (4) elective credits. However, all 100-level courses beyond the first 4 credits will be in excess of the normal 120 hours required for a degree.

HISTORY

Office: E332 Thompson Hall (716) 673-3277 E-mail: History.Department@fredonia.edu Ellen Litwicki, Chairperson

The Department of History offers a broad-based and worldwide curriculum, with an emphasis on developing critical thinking and writing skills. History majors study the complexities of the human experience, deepen their knowledge of their own society and its past, explore other cultures and societies, and prepare for life in a multicultural and international community. The History major also prepares the student for a variety of career opportunities, including law (law schools take a third of their candidates from history majors), government at all levels, editing and book publishing, journalism, communications and media, college and university teaching (with an advanced degree), and public history venues such as historical sites,

museums and libraries. In addition, many jobs in business and industry are open to liberal arts graduates with training in history. The Social Studies Adolescence Education major prepares students to teach in middle school and high school.

Internships: The history department facilitates internships at local museums and archives, in Washington, D.C., Albany, N.Y., and within the college. The department also encourages students to participate in international experiences through the Study Abroad or Student Exchange programs.

Honors and Awards

The honors program of the Department of History is designed to honor graduates of the History or Social Studies programs who have consistently demonstrated ability and produced work of high quality in the discipline. The honors designation is given to students who achieve an all-college average of 3.0; an average in history courses of 3.25; and who earn appropriate grades in HIST 499 (Senior Honors Seminar) and HIST 201 (Doing History). For more information on the honors program, contact the chairperson.

The department gives a variety of awards. The Chazanof Award recognizes student work in local history. The Gallagher Scholarship is awarded to a minority student pursuing a career in education. The MacPhee Award is given to a promising History or Social Studies major who has attained junior rank. The department also annually recognizes an Outstanding History major, an Outstanding History student, and an Outstanding History paper. Phi Alpha Theta, the history honor society, recognizes academic excellence (see page 200).

Requirements for the Bachelor of Arts Degree in History

Thirty-nine credit hours in history, at least 18 hours of which must be at the 300-level or above, with the exception that follows. Of those 18 hours, 6 hours may be taken from among the 200-level surveys in African, Asian, Latin American, and Middle Eastern history. Before taking 300-level courses, students should have completed HIST 201 (Doing History). Selected students will have the opportunity to participate in HIST 499 (Senior Honors Seminar), offered in the fall semester. The program must include the following:

- A. HIST 105-106; 3 additional credit 9 hours from American/U.S. history at the 300-level or above
- B HIST 101 or 115 and HIST 102 or 9 HIST 116; 3 additional credit hours from European history at the 300-level or above
- C. Three courses from the history of 9 Africa, Asia, Middle East, Latin America, and/or Global
- D. three additional history courses 9 as advised
- E. HIST 201 Doing History (should 3 be taken in the sophomore year) Total 39

Requirements for Transfer Credit Students transferring credit to Fredonia should normally expect no more than 21 credit hours earned elsewhere to apply to the major in History. As a rule, the department will not accept as equivalents of upper-level courses (above HIST 299) credits earned at two-year colleges. HIST 201 and HIST 499 must be taken at Fredonia. HIST 499 fulfills any applicable 300-level or elective requirement.

Other Requirements: Majors must fulfill all testing and assessment requirements set by the department. These presently include pre- and post-testing.

Students whose objectives require a different program may, upon petition to the department chairperson, seek approval for a program of their own design.

Requirements for the Bachelor of Arts Degree in Social Studies Adolescence Education (leading to initial certification)

Students who receive their initial certification in 2004 or after will need to complete a master's degree within three years to receive their professional certification.

Responsibility for the B.A. in Social Studies Adolescence Education is shared by the School of Education and the Department of History. Advising and final approval of requirements is done by the Department of History. Students are encouraged to double major in History (or another field) in order to enhance their understanding of the discipline and their future employment opportunities. Requirements beyond those of the College Core Curriculum include:

Concyc	0010 00	iniourum	moluue.	
I. Pro (37 cre		Educatio required)	n Courses	6
EDU 10	5 Introd Conter (recon	nporary	Education for	3
EDU 10	Conter	ien) iction to mporary tion—Field		0
EDU 22	Experi 4 Adoles & Chi	ence cent De Id Abuse	velopment Workshop	3
EDU 25	sophor 0 Introdu Excep (recon	uction to t tional Lea nmended	arner	3
EDU 25	Excep	uction to t tional		0
EDU 27	6 Literad	er—Field sy and Te dary Sch	Experience eaching ools	3
EDU 30	5 Cultura Divers	al and Lir ity in the	nguistic Classroom	3
EDU 31	(recom) 3 Cultura Divers	nmended al and Lir ity—Field	for juniors)	0
EDU 34	Child	tional Psy Abuse W	orkshop	3
EDU 41	9 Secon (Adole	dary Scho scence)		3
HLTH 3	(senior semes 00 Educa Alcoho (recom sophor	ds—Social r year/offe ter only) tion in Dr l and Tol mended mores, jur	red fall ugs, bacco for	1
EDU 43	7-12— (senioi	nt Teaching Social S	g Grades tudies red spring	15
		s Course	e Work	
	: Basic Kn 15 credit		all courses	
HIST 10 HIST 10	1 World	History I History II		3 3
HIST 10		listory to 1	1877	3
HIST 10		listory to		3 3
POLI 12		an Politics		3
	I: Methodo		courses	
HIST 20	12 credit	History		2
	urse is norn		in the	3
	ore year)	any anell		
ECON 2	01 Princip	oles of		3
		economics		2
ECON 2		conomics	0	3

POLI 352

World Political Geography 3

Group III: Cultures and Civilizations (9 credit hours) *A. American Minorities*

Any	one	of	the	following:	
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Any one of the following.	
HIST/ Introduction to Race and INDS 220 Ethnicity	3
HIST 333 African American History to 1865	3
HIST 334 African American History since 1865	3
HIST 336 African American/Black Women's History	3
HIST 345 Asian American History	3
HIST 356 American Indian History	3
SOC 316 Minority Groups (prerequisite: SOC 116)	3
Note: Students seeking a double major in Social Studies and History should take a history course in this category.	
B. World Regional Civilizations	
Required:	
HIST 116 Modern Western Civilizations	3
and any 200 level world regional civilization course	3

Group IV. Building Knowledge, Connections, and Arguments (15 credit hours)

A. Three courses in History at the 300-level or above: one with focus on the American/U.S. experience; one on Europe; one on global or non-Western cultures.

B. Two courses at the 300-level or above in History, Political Science, Sociology, Anthropology, Economics, English, Art, Foreign Languages and Literature, Psychology or Communications, chosen in consultation with advisor. The courses must be in different departments. Students seeking to double major in Social Studies and History should take one history course in this category.

III. Foreign Language (0-6 credit hours) Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring the equivalent of two successful college semesters (116 level), or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a Regents score of 65. The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

Double Major

To achieve the double major in History with the addition of only one history course, the student must select a history course for the American minorities requirement and for one of the Part IV B courses in the Building Knowledge group.

Requirements for Transfer Credit: Students transferring credits to Fredonia should normally expect no more than 27 credit hours earned elsewhere to apply to the Social Studies course requirements. (Special consideration can be given students who have earned a B.A. degree in one of the social sciences.) As a rule, the department will not accept as equivalents to advanced social studies courses credits earned at two-vear colleges. All requirements for EDU 419 and EDU 430 must be completed under Fredonia supervision. To be applied to the requirements of the Social Studies Adolescence Education program, transferred courses must have been completed with a grade of C+ or better.

Other Requirements: All majors must fulfill all testing and assessment requirements set by the Department of History. At present, these include preand post-testing. In addition, Social Studies majors must fulfill all gated assessment requirements. Grades must be C+ or better in all required courses in the Social Studies program. The Written Communication requirement under the College Core Curriculum must be passed with a C or better. Students are encouraged to complete one course in statistics as part of the College Core Curriculum.

Enrolled students and transfer students wishing to declare the Social Studies Adolescence Education major must have an overall GPA of 2.75. The grade point requirements for entering the student teaching semester are: overall GPA of 2.75, in Professional Education courses 2.75, and in the Social Studies component 2.75. Acceptance into the senior. professional year is also contingent upon a personal interview and review by the Social Studies screening committee composed of Department of History faculty and area social studies teachers. A copy of the criteria used by the screening committee may be obtained in the history department. Acceptance into student teaching also requires approval by the director of the School of Education, see page 25.

EDU 419 can be taken only in the fall semester of the senior year. EDU 430 requires the entire spring semester as a full course load.



Students are strongly advised to pursue a second major in History or one of the other social science disciplines (economics, political science, or sociology/anthropology) and may count appropriate courses taken for the Social Studies Adolescence Education major and the College Core Curriculum requirements towards such a second major.

Requirements for a Minor in History Eighteen credit hours of course work in history, including 9 credit hours at the 300-level or above. The department suggests the following concentrations:

Global Studies: HIST 101-102, HIST 386 and three additional courses in global or non-Western history.

American Culture: HIST 105-106, and four additional courses chosen from: HIST 332, 333, 334, 335, 336, 338, 339, 344, 345, 347, 351, 353, 355, 375 and 376.

North American Studies: HIST 105-106, and four additional courses on the history of Mexico, Canada, and the United States.

Middle East/Asian Studies: HIST 101-102, and four of the following courses: HIST 261, 264, 265, 266, 268, 361, 366, 367, 368.

European Studies: HIST 115-116, and four additional courses in European history.

Other concentrations are also possible. The program must be prepared in consultation with a department faculty member and receive department approval. No more than 9 credit hours of history credit earned prior to the declaration of the minor may be credited toward the program.

INDUSTRIAL

MANAGEMENT

Office: 121 Houghton Hall (716) 673-3302 E-mail: Industrial.Management@fredonia.edu Michael **Grady**, Director

There is a well-recognized need for scientifically and technologically educated managers in the industrial and Research and Development (R & D) communities. The Industrial Management program at Fredonia is designed to serve this need by providing the necessary foundation in applied physics, business, economics, and mathematics. It is similar to many engineering and management programs. The curriculum is structured to prepare students for careers either in industry, governmental facilities or other organizations that address the present and future technological needs of our society. Graduates can also pursue advanced studies at graduate institutions.

The Industrial Management program is an integrated multidisciplinary curriculum combining courses from applied physics (27/29 credit hours), business/economics (24 credit hours), mathematics/computer science (24 credit hours), social sciences/ humanities (24 credit hours), and a sufficient number of supporting elective courses to enhance career objectives. Additionally, the foundation of oral and written communication is developed early in the program and consistently used throughout. A college-approved internship experience is required following the completion of either the sophomore or junior year. In the process, the student is provided with a broad-based liberal education.

Required Core Program (87-89 hours):

Nequileu	core rrogram (or-og nou	3).
Physics (27	-29 credit hours)	
PHYS 230-	,	10
		10
231	and PHYS 232-233 (Labs)	
PHYS 321 -	Engineering Mechanics	8
322	1&1	
PHYS 323	Circuit Analysis I	
11110 525		~ .
	or	3-4
PHYS 325	Electronics and PH 327	
	(Lab)	
PHYS 324	Circuit Analysis II	
11110 524		~ .
	or	3-4
PHYS 326	Digital Electronics and	
	РЙ 328 (Lab)	
PHYS 330		-3
FIII 3 330	,	-
	27	-29
	cs/Computer Science	
(24 credit h	ours)	
MATH 122	 University Calculus 	12
123-223	1, 11 & 111	
	,	~
MATH 224	Differential Equations	3
MATH 325	Numerical Analysis	3
CSIT 106	C/C++ Programming	3
	5 5	
CSIT 105	Visual Basic I	_ 3
		24
Business/E	conomics (24 credit hours)	
ACCT 201 -	Principles of Accounting	6
202	1&11	
-		c
ECON 201	•	6
202	Microeconomics and	
	Principles of Macroeco	nomics
BUAD 310	Legal Environment of	3
	Business	
		2
BUAD 315	Principles of Business	3
	Finance	
BUAD321	Management and	3
	Organizational Behavior	
BUAD 325	Principles of Marketing	3
DUAD 323	T finciples of Marketing	
		24
o <i>i</i> :		
	Research and Statistics	
(6 credit ho	urs)	
BUAD 327	Production and Operations	
	Management	
	•	
	or	~
MATH 359	Probability Models in	3
	Operations Research	
	or	
MATH 375	Introduction to Operations	
WATT 575		
	Research	
ECON 200	Fundamentals of Statistics	
	for Economics & Business	
	or	
0747050		•
STAT 350	Probability and Statistics	3
	or	
PSY 200	Statistics	
	or	
SOC 200	Statistics for Sociologists	
0		
	ations (6 credit hours)	
COM 105	Public Speaking	3
ENGL 375	Writing for the Professions	3
		<u> </u>
1	and the second	0
inaddition,	completionofanappropriate	

Inaddition, completion of an appropriate summerind us trial work experience is required prior to entering the seniory ear. Faculty members are listed under the

physics department.

INTERDISCIPLINARY

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STUDIES

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INTERDISCIPLINARY

STUDIES

The Interdisciplinary Studies degree program provides students with the greatest possible flexibility in meeting their educational goals by offering the opportunity to design creative and individualized interdisciplinary majors and minors.

Students in the Interdisciplinary Studies programs are committed to exploring innovative connections and emerging relationships drawn from the traditional disciplines and those developing areas of overlap and interface. These students are typically explorers and creative problem solvers, and many Interdisciplinary Studies students construct their own topics of study (for either major or minor) using analytical approaches and tools from several fields. Students may also choose to pursue one of the major programs (see chart). The degree program constitutes a student's major; the interdisciplinary minors may be taken by students majoring in any program in the college.

Students who opt for a truly individualized degree program must develop their own program under the guidance of two faculty members and with the approval of the Associate Vice President/Graduate Dean. The necessary form and guidelines for submitting a formal individualized major proposal are available in the Office of the Registrar. Both the individualized degree program and a model major program will lead to the degree of Bachelor of Arts or Bachelor of Science (B.A. or B.S.).

Students interested in declaring an interdisciplinary major or minor should consult with the coordinator from the appropriate area. Major and minor programs and coordinators are listed on the chart. Majors and minors must be formally declared through the Office of the Registrar.

Requirements for Majors in Interdisciplinary Studies Degree Programs

1. Each student who chooses a major program (see list) is advised by the program coordinator or a member of the cadre of faculty from the lead department for each major.

2. For students who pursue an individualized major, formal completion and submission of the degree plan

proposal must be approved by the Associate Vice President for Academic Affairs.

3. All students in these major programs must complete the college's requirements for the College Core Curriculum and earn the number of credit hours required outside of the major.

4. A maximum of 45 credit hours in any one discipline may count toward

5. The proposed major must constitute

baccalaureate.

at least 36 hours of which no more than 15 hours may come from one discipline. At least 24 of those 36 credit hours must be at the 300-400 level.

the 120 credit hours total required for

6. A minimum of 36 hours of 300-400 level courses must be included overall in the 120 hours required for graduation.

Interdisciplinary Studies Majors

Areas of Study

American Studies see page 5

Arts Administration see page 6

Environmental Sciences see page 30

International Studies see page 40

Legal Studies see page 43

Music Business see page 56

Interdisciplinary Studies

African American Studies see page 48

American Studies see page 5 American Indian Studies

see page 48 Arts Administration see page 6

Film Studies

see page 31

Geographic Information Systems see page 32 Journalism

see page 42

Latino Studies see page 49

Legal Studies see page 43 Sport and Exercise Studies

see page 68

Women's Studies see page 76

Coordinators

Dr. Christina S. Jarvis, English 235 Fenton Hall (716) 673-3430

Jefferson Westwood, Director G-15 Rockefeller Arts Center (71 6) 673-3217

Dr. Alicia Perez-Fuentetaja, Biology 130 Jewett Hall (716) 673-3817

Dr. John Staples, History E315 Thompson Hall (716) 673-3875

Dr. Kevin McMahon, Political Science E398 Thompson Hall (716) 673-4673

Dr. Harry Jacobson, Music 1139 Mason Hall (716) 673-3248

Minors

Dr. Najia Aarim, History E308 Thompson Hall (716) 673-3883

Dr. Christina S. Jarvis, English 235 Fenton Hall (716) 673-3430

James Stevens, English 269 Fenton Hall (716) 673-3850

Jefferson Westwood, Director G-15 Rockefeller Arts Center (71 6) 673-3217

Dr. William Graebner, History E332 Thompson Hall (716) 673-3277

Dr. Ann K. Deakin, Geosciences 114 Houghton Hall (716) 673-3884

Dr. Jeanette McVicker, English 232 Fenton Hall (716) 673-3852

Dr. Michael Brescia, History E31 7 Thompson Hall (716) 673-3880

Dr. Kevin McMahon, Political Science E398 Thompson Hall (716) 673-4673

Dr. Charles Davis, Health, Wellness & Recreation 123 Dods Hall (71 6) 673-3892 Dr. Bruce Klonsky, Psychology W339 Thompson Hall (716) 673-3892

(co-coordinators) Dr. Adrienne McCormick, English

258 Fenton Hall (716) 673-3851

Requirements for the Minor in Interdisciplinary Studies

An Interdisciplinary Studies minor is a group of six to nine courses centering on a topic or problem studied from many different points of view. Each minor may be studied in combination with any major. At present. interdisciplinary minors are available in African American Studies, American Studies, American Indian Studies, Arts Administration, Film Studies, Geographic Information Systems, Journalism, Latino Studies, Legal Studies, Sport and Exercise Studies, and Women's Studies. Individualized minors may be created under the advisement of an appropriate area coordinator. Minors must be formally declared through the Office of the Registrar.

Interdisciplinary Studies Courses

In addition to the major programs and minors described on the previous page, the Interdisciplinary Studies program offers several courses developed for interdisciplinary or special interest purposes.

Independent study and internship options are available through Interdisciplinary Studies. Internships may receive up to 15 hours of credit. Students proposing an internship are required to prepare a "Learning Contract" describing the goals of the internship and how they will be met. Internship forms are available from the Coordinator of Internships. Only 6 credit hours earned through internship or independent study may be applied toward the 300- and 400-level course requirements of the individualized major.

INTERNATIONAL STUDIES

Office: E315 Thompson Hall (716) 673-3875 E-mail: International.Studies@fredonia.edu John Staples,Coordinator

The International Studies major has been designed to prepare students for international leadership roles in the twenty-first century. The program encourages its majors to think both globally and across disciplines as they seek to understand the dynamics of a global society. The International Studies major has been designed to prepare students for careers in the most dynamic sectors of global governance, society and economy. The vitality behind this program comes from faculty in several disciplinary fields who offer courses and act as a steering committee for the program.

Students take a core of interdisciplinary courses, select a specialization, and complete a minor. The core courses in International Studies provide all students with a basis on which to build their individualized programs through one of six thematic specializations. Core courses ensure students will be introduced to international relations, global history, cultural issues. and the concerns and challenges facing developing and developed countries. Students also select a minor that complements the thematic specializations. The specializations offer students the opportunity for more individualized training within the framework of international studies. The six specializations are International Political Economy, Peace and Conflict, European Cultural Studies. Cultural Studies of the Americas. Advanced Industrial Societies, and the Developing World. The International Political Economy specialization prepares students for careers or graduate study in the area of economic and political analysis and policy-making. The Peace and Conflict specialization would be of interest to students who wish to pursue careers in diplomacy or national security. With the proliferation of international governmental and non-governmental organizations dedicated to cultural exchange and dialogue and the globalization of the entertainment industry, the European Cultural Studies and the Cultural Studies of the Americas specializations prepare students to seek careers in fields such as arts administration, global communication, and the championing

of human rights. Advanced Industrial Societies and the Developing World lay the foundation for students to pursue regional specializations in international job settings or in graduate-level training. Proficiency must be demonstrated in a foreign language equivalent to a two-year course of study. More advanced study of a foreign language is strongly encouraged. Students must gain international experience through a study program abroad or an international internship.

This is an interdisciplinary major program; for specific degree requirements unique to Interdisciplinary Studies, refer to page 39.

Requirements for the Bachelor of Science/Interdisciplinary Studies Major in International Studies

I. Core R	equirements (23 credit	
hours)		
INTL 101	International Studies	1
	Colloquium	
ANTH 115	Introductory Anthropology	3
ECON 201	Macroeconomics	3
Plus two of t	he next three courses	6
listed below:		
ENGL211	World Poetry	
MUS 333	Music of the World	
ART 116	Masterpieces of Art from	
	1400 to Present	
HIST 102	Global Studies II	3
POLI 150	U.S. And World Affairs	3
POLI 352	World Political Geography	3
INTL 401	SeniorColloquium	1

II.. Foreign Language (3 to 12 credit hours)

1. Completion of course work through the 216 level (second-semester intermediate). This requirement may be satisfied by a student attaining a satisfactory score on the Foreign Language Placement test or a score of 4 or 5 on the Advanced Placement Educational Testing Service Examination.

2. Students must take a minimum of one course (3 credit hours) at the college level. Students may complete this requirement at Fredonia, in a program at an approved institution in the U.S., or in a foreign country.

3. Foreign language training at the 300- and 400-levels is strongly recommended.

INTERNATIONAL

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III.		Internati	onal	Experience
	(6	credit	hours)	

Students must take 6 credit hours of an international experience that has been approved by the International Studies Curriculum Committee. An experience in a foreign country is mandatory. This requirement can be fulfilled via enrollment in a short- or long-term study abroad program or completion of an internship with an international agency.

IV. Specializations (21 credit hours)

A. Students select one of the six specializations listed below:

- International Political Economy •
- Advanced Industrial Societies .
- . Cultural Studies of the Americas
- The Developing World .
- European Cultural Studies ٠
- Peace and Conflict •

Β. International Studies Specializations Guidelines:

1. Students select one specialization.

2. No more than 9 credit hours may be taken in the same discipline. (Exception: International Political specialization.) Economy

3. A student must select a minor from the list provided for each of the specializations.

International Political Economy (21 credit hours)

Minor: Economics or Political Science, which may include some prerequisites below.

From courses below, students take seven courses, distributed as follows:

a. One course from each area: economics, political science, history (total of three courses).

b. Three courses from the field in which one does not minor POLI or ECON).

c. One course from ECON, POLI or HIST (excluding non-minor field).

ECON	202	Microeconomics
ECON	320	International Trade and
		Finance
ECON	321	Economics of Multinational
		Corporations
ECON	335	Economic Development
ECON	345	Comparative Economic
		Systems

	and Natural Resource
	Economics
ECON 395	Comparative Human
	Resources
HIST 266	Modern East Asia
HIST 311	Europe in the Modern World
HIST 361	Modern Middle East
HIST 367	20th Century China
HIST 368	Modern Japan
HIST 383	History of Latin America II
HIST 386	Global Studies
POLI 341	Political Economy of
	Development
POLI 344	Comparative Public Policy
POLI 346	East Asian Political
	Economy: Japan, China
	and Korea
POLI 348 POLI 354	European Union
POLI 354 POLI 355	Middle East Politics International Political
PULI 300	Economy
POLI 356	U.S. Foreign Policy
Advanced	Industrial Societies
(21 credit	hours)
Minors: Ec	onomics, History, Political
Science	
CM 385/	International
HIST 385	Media/International
	Communication
ECON 201	Microeconomics
ECON 320	International Trade and
	Finance Economics of Multinational
ECON 321	Corporations
ECON 345	Comparative Economic
20011 010	Systems
ECON 395	Comparative Human
	Resources
LANG 378	Canada Today
FREN 323	France Today
FREN 323 GERM 323	France Today Germany Since 1918
FREN 323 GERM 323 HIST 212	France Today Germany Since 1918 History of the Holocaust
FREN 323 GERM 323 HIST 212 HIST 309	France Today Germany Since 1918 History of the Holocaust Modernization of Europe
FREN 323 GERM 323 HIST 212	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331 POLI 332	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331 POLI 332	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 311 HIST 311 HIST 311 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 386 PHIL 342 POLI 330 POLI 331 POLI 332 POLI 346	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China and Korea
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331 POLI 332	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China and Korea International Political
FREN 323 GERM 323 HIST 212 HIST 309 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 386 PHIL 342 POLI 330 POLI 331 POLI 332 POLI 346 POLI 355	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China and Korea International Political Economy
FREN 323 GERM 323 HIST 212 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 366 PHIL 342 POLI 330 POLI 331 POLI 332 POLI 355 SOC 321	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China and Korea International Political Economy Population and Society
FREN 323 GERM 323 HIST 212 HIST 309 HIST 309 HIST 311 HIST 312 HIST 317 HIST 342 HIST 368 HIST 386 PHIL 342 POLI 330 POLI 331 POLI 332 POLI 346 POLI 355	France Today Germany Since 1918 History of the Holocaust Modernization of Europe Europe in the Modern World Modern Germany Modern France The American Century Modern Japan Global Studies Values in a Technological Society Western Europe Canadian Politics Russian Politics East Asian Political Economy: Japan, China and Korea International Political Economy

ECON 380 Environmental Economics

Cultural Stud (21 credit he	dies of the Americas ours)
Modern (For	Communication, English, eign) Languages, History, osophy.
	Anthropology of the Caribbean
ANTH 345 ENGL 240	Canada's Native People Introduction to African American Literature and Culture
ENGL 241	Introduction to Latino Literature and Culture
	Contemporary Multicultural American Literature
ENGL 395 LANG 371	Third World Literature Canadian Writers Canada Today
FREN 310	Quebec Literature and Culture
SPAN 325	Survey of Spanish-American Literature
HIST 285	Indigenous America: Aztecs and Their Neighbors
HIST 347 HIST 351 HIST 380 HIST 381 HIST 382 HIST 383 POLI 331	U.S. Immigration Defining America History of Mexico I History of Mexico II History of Latin America I History of Latin America II Canadian Politics
The Develo hours)	ping World (21 credit
hours) <i>Minors:</i> Ar	ping World (21 credit hthropology, Economics, litical Science, Sociology
hours) <i>Minors:</i> Ar	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian
hours) <i>Minors:</i> Ar History, Po ANTH 321	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the
hours) Minors: Ar History, Po ANTH 321 ANTH 322 ANTH 324	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International
hours) <i>Minors:</i> Ar History, Po ANTH 321 ANTH 322 ANTH 324 ANTH 345 COMM 385/	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International Communication Intercultural
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hours) Minors: Ar History, Po ANTH 321 ANTH 322 ANTH 324 ANTH 345 COMM 385/ HIST 385 COMM 465 ECON 201	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International Communication Intercultural Communication Microeconomics International Trade and Finance Economics of Multinational
hours) Minors: Ar History, Po ANTH 321 ANTH 322 ANTH 322 ANTH 345 COMM 385/ HIST 385 COMM 465 ECON 201 ECON 320 ECON 321 ECON 335	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International Communication Intercultural Communication Microeconomics International Trade and Finance Economics of Multinational Corporations Economic Development
hours) Minors: Ar History, Po ANTH 321 ANTH 322 ANTH 324 ANTH 345 COMM 385/ HIST 385 COMM 465 ECON 201 ECON 320 ECON 321	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International Communication Intercultural Communication Microeconomics International Trade and Finance Economics of Multinational Corporations Economic Development Comparative Economic
hours) Minors: Ar History, Po ANTH 321 ANTH 322 ANTH 322 ANTH 345 COMM 385/ HIST 385 COMM 465 ECON 201 ECON 320 ECON 321 ECON 335	hthropology, Economics, litical Science, Sociology Anthropology of Africa Anthropology of Indian America Anthropology of the Caribbean Canada's Native People International Media/International Communication Intercultural Communication Microeconomics International Trade and Finance Economics of Multinational Corporations Economic Development Comparative Economic Systems Environmental Economics and Natural Resource
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HIST 361	
	Modern Middle East
HIST 366	Late Imperial China
HIST 367	20th Century China
HIST 380	History of Mexico I
HIST 381	History of Mexico II
	History of Latin America I
HIST 382 HIST 383	History of Latin America II
	-
HIST 386	Global Studies (if not
	taken in core)
HIST 387	Comparative Slave
	Societies
POLI 334	African Politics
POLI 341	Political Economy of
	Development
POLI 346	East Asian Political
	Economy: Japan, China
	and Korea
POLI 354	Politics of the Middle East
SOC 314	Contemporary Africa
SOC 321	Population and Society
European (Cultural Studies (21 credit
European (hours)	Sultural Studies (21 Credit
nours)	
Minors: Art,	Communication, English,
Modern (Fo	preign) Languages, History,
	illosophy
maolo, in	liceophy
ART 340	History of Architecture
ART 451	Modern Architecture
ENGL 322	The Romantic Age
ENGL 326	Victorian and Early
LINGL 520	Modern Literature
ENGL 328	Modern English Literature
	Duccion Literature
ENGL 396	Russian Literature
HIST 116	Modern Western
HIST 116	
HIST 116	Modern Western
HIST 116	Modern Western Civilization The Age of Reformation
HIST 116 HIST 306 HIST 309	Modern Western Civilization The Age of Reformation Modernization of Europe
HIST 116	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern
HIST 116 HIST 306 HIST 309 HIST 311	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany
HIST 116 HIST 306 HIST 309 HIST 311	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II Survey of French
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II Survey of French Literature I
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II Survey of French
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II Survey of French Literature I Survey of French Literature II
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320 SPAN 315	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces II Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320 SPAN 315 SPAN 319	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I
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HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 316 FREN 319 FREN 319 SPAN 320 SPAN 320	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature II
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320 SPAN 319 SPAN 320 MUS 115	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature II Survey of Spanish Literature II Music Appreciation
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 316 FREN 319 FREN 319 SPAN 320 SPAN 320	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature I Survey of Spanish Literature I Survey of Spanish Literature II Music Appreciation Music History in Western
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 316 FREN 316 FREN 319 FREN 315 SPAN 319 SPAN 320 MUS 115 MUS 263	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature II Music Appreciation Music History in Western Civilization
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 315 FREN 316 FREN 319 FREN 320 SPAN 319 SPAN 320 MUS 115	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature I Survey of Spanish Literature II Music Appreciation Music History in Western Civilization Special Topics
HIST 116 HIST 306 HIST 309 HIST 311 HIST 312 HIST 322 FREN 316 FREN 316 FREN 319 FREN 315 SPAN 319 SPAN 320 MUS 115 MUS 263	Modern Western Civilization The Age of Reformation Modernization of Europe Europe in the Modern World Modern Germany French Revolution and Napoleon French Masterpieces I French Masterpieces I Survey of French Literature I Survey of French Literature II Introduction to Hispanic Literature Survey of Spanish Literature I Survey of Spanish Literature II Music Appreciation Music History in Western Civilization
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Peace	and	Conflict	(21	credit	hours)
Minors:	Hist	ory, Po	olitical	Sciend	ce.
COMM HIST 3		Internation MedidInte Commun	ernatior	nal	
COMM	465	Intercultu Commun	iral		
ECON	202	Microeco	nomics	5	
ECON	345	Compara Systems	itive	Econom	ic
LANG	398	The Hol		in	
HIST 2	212	History of	of the	Holoca	ust
HIST 3	809	Moderniz	ation	of Euro	ope
HIST 3	11	Europe World	in the	Modern	
HIST 3	312	Modern	Germa	any	
HIST 3	842	The Am	erican	Centur	у
HIST 3	849	U.S. Mil	itary H	listory	
HIST 3	850	Vietnam the Nation			
HIST 3	61	Modern	Middle	East	
HIST 3	868	Modern	Japan		
POLI 3	354	Politics	of the	Middle	East
POLI 3		U.S. Fo	-	•	
POLI 3		Modern	Politica	al Theo	ory
POLI 3	363	Game 1	Theory		

JOURNALISM

(Interdisciplinary Studies minor only)

Office: 232 Fenton Hall (716) 673-3852 E-mail: Journalism. Program @fredonia.edu Jeanette McVicker, Coordinator

The Journalism minor prepares students for careers in journalism and provides a solid background for related positions in the private sector and public affairs. The minor program features a strong core in news gathering, research, and writing, with a total of five core courses required. Students will add a two-course emphasis in print journalism, broadcast journalism or photojournalism. Students are encouraged to pursue internships both on- and off-campus to gain valuable hands-on experience and to put course work into practice. One of those internships might be earned at The Leader, the college's award-winning student newspaper. Students pursuing the Journalism minor are strongly encouraged to select their College Core Curriculum (CCC) courses in areas of United States history, politics, economics and culture, in order to further ground their preparations for a media career (students should consult the advising sheet for minors for recommended CCC electives, available from the coordinator).

Students are required to take 21 credit hours from among the following courses:

Journalism	Core (15 credit hours):	
JOUR 270	Introduction to Print and Broadcast Journalism or	
COMM 102	Mass Media and Society or	3
MEDA 101	Media Literacy	
JOUR 370	Newswriting & Reporting I Prerequisite: JOUR 270, COMM 102 or MEDA 101	3
JOUR 371	Newswriting & Reporting II Prerequisite: JOUR 370	3
JOUR 372	Newswriting & Reporting III Prerequisite: JOUR 371	
	or	3
JOUR 366	Opinion in Journalism Prerequisite: JOUR 270, COMM 102 or MEDA 101	
COMM 420	Media Law and Ethics Prerequisite: COMM 102	3
Emphasis	(at least 6 credit hours):	

All students will take at least one of the two-course sequences from among the following: ART 255 Photography I 3 and ART 310 Digital Imaging 3 or **JOUR 470** (The Leader seminar) 3 or 471 and **JOUR 465** Internship 3 or COMM 358 Television News 4 and COMM 395 Radio News 4 (Students should refer to prerequisites in Communication.)

Students may count no more than 9 credit hours from their major program toward the minor in Journalism. Students may transfer up to 6 credit hours from another institution toward the minor in Journalism at Fredonia. Students may use past courses retroactively after approval of the coordinator. Learning Contracts must be completed for all internships and signed by the Journalism coordinator.

(Latino Studies, see Multi-ethnic Studies, page 49.)

LEGAL STUDIES

E386 Thompson Hall (716) 673-3885 E-mail: Legal.Studies@fredonia.edu Kevin McMahon, *Coordinator*

Legal Studies is designed to provide students with a broad background of interdisciplinary courses focusing on the development and structure of the law. It provides a blended, specialized curriculum that retains the strengths of a liberal arts and sciences education while providing an excellent preparation for advanced study in the field of law. Students will be provided with an interdisciplinary approach to

the study of the American judiciary with integral layers of ethics, social sciences and analytical skills. An internship in a legal setting is one of the key components. The program is especially helpful for those seeking a more complete understanding of the legal system and the interaction of law in society, and those preparing for the Law School Admission Test. A pre-law advisory committee exists to provide students with career counseling.

This is an interdisciplinary major program; for specific degree requirements unique to Interdisciplinary Studies, refer to page 39.

I. Core Requirement (6 credit hours)

POLI 276 POLI 277	Law and Society Introduction to Law	3 3
II. <i>Legal Fo</i> (9 credit	oundations hours from)	
PHIL 362	Philosophy of Law	З
POLI 370	Constitutional Law*	3
POLI 371	Civil Rights and Liberties*	3
POLI 383	Courts and Social Policy*	3
SOC 361	Law in the World*	3
	I the Legal System	
(3 credit	hours from)	
(3 credit ACCT 311	hours from) Business Law	3
•		3 3
ACCT 311	Business Law	-
ACCT 311 ACCT 312	Business Law Business Law II* Legal Environment of	3
ACCT 311 ACCT 312 BUAD 310	Business Law Business Law II* Legal Environment of Business Communication, Law and	3 3
ACCT 311 ACCT 312 BUAD 310 COMM 353	Business Law Business Law II* Legal Environment of Business Communication, Law and Ethics*	3 3 3

from)		
PHIL 218 PHIL 265	Introduction to Ethics Social and Political	3 3
PHIL 310	Philosophy Administative Ethics	3
PHIL 312	Current Moral Issues and Principles	3
PHIL 364	Justice, Law and Economics	3
HIST 375 POLI 330	History of Authority* Western European Politics*	3
POLI 331	or Canadian Politics* or	3
POLI 332 POLI 360 POLI 361	Russian Politics* Classical Political Theory* Modern Political Theory*	3 3
	<i>d Human Behavior</i> t hours from)	
PSY 245	Social Psychology* or	3
SOC 204	Social Psychology*	
PSY 356 SOC 310	Abnormal Psychology* Sociology of Deviant Behavior*	3 3
SOC 362	Criminology*	3
SOC 363	Victimology*	3
SOC 364	Juvenile Delinquency*	3
	<i>equirements</i> t hours from)	
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of	3
PHIL 106	Microeconomics Critical Thinking	
PHIL 116	or Introduction to Deductive Logic	
PHIL 216	or Intermediate Deductive Logic*	3
PHIL 220	or Introduction to Inductive Logic	
POLI 200	Statistics or	3
SOC 200	Statistics	
POLI 210	Methods	_
SOC 300	or Research Methods	3
VII. Legal	Internship (Optional)	
*prerequisite		

IV. Law and Philosophy (6 credit hours

from)

Most professions require effectiveness in writing and speaking. This is certainly true of the legal profession.

- Students are advised to choose
 - courses which will help them develop
- these skills; e.g. COMM 105 and
- COMM 205 for speaking and upper division courses as electives for
- writing.

Students should also acquire a knowledge of standard computer software including word processing, spreadsheet and database programs. Familiarity with bibliographic and data search routines including the Internet

and World Wide Web are strongly encouraged.

MATHEMATICS

Office: 223 Fenton Hall (716) 673-3243 E-mail: Mathematics.Department@fredonia.edu H. Joseph Straight, *Chairperson*

- The goal of the programs in Mathematics is to prepare students for
- 3 the lifelong study and use of
- mathematics. The application of
- mathematics has made possible many of the technological advances now taken for granted. Conversely, problems in business, science and engineering, when formulated
- 3 mathematically, often spur advances in mathematics. This interrelation
- 3 between mathematics and other disciplines has been growing and now includes many more areas than would have been thought possible only a few years ago.
- The Department of Mathematics and Computer Science offers several undergraduate program options within mathematics. The Liberal Arts track is recommended for those who plan to pursue graduate study in mathematics or seek general employment following
- graduation. Those students who plan a mathematics-related career in
- business, industry, or science may wish to follow the Applied Mathematics track. For students planning a career in teaching, the college offers two program options: Adolescence Education - Mathematics, to prepare high school mathematics teachers (grades 7 through 12), and Middle Childhood Education - Mathematics Specialist, to prepare mathematics teachers for middle school (grades 5 through 9). Both teacher preparation programs lead to recommendation for Initial Certification in New York State.

The department offers a Master of Science in Education degree program to provide middle and high school mathematics teachers with the opportunity to work towards Professional Certification. The department also offers minors in Mathematics and Applied Mathematics and, in collaboration with the Department of Physics, a degree program in Mathematics-Physics; see page 58. It also participates in the Cooperative Engineering program; see page 27.

Upon recommendation of the faculty, qualified students are invited to join the Honors Program in Mathematics. The objectives of the program are to: (1) deepen a student's understanding and appreciation of mathematics, (2) provide the student with the opportunity to conduct research on a selected topic with guidance from a faculty member, and (3) enhance the student's preparation for graduate study in mathematics. The program consists of three special courses: MATH 290 - Sophomore Honors Mathematics; MATH 390 - Honors Special Topics; and MATH 490 -Honors Thesis.

Generally, MATH 290 and 390 are taken in the spring semester of the student's sophomore and junior years, respectively, while MATH 490 is taken in the senior year. The department also offers MATH 190 - Honors Problem Solving each spring to a select group of freshmen that have been recommended by their calculus instructors. Although not a formal part of the Honors Program, MATH 190 is a good course for freshmen who like working on nontrivial problems and wish to further develop their analytical thinking skills.

Manv mathematics students participate in the activities of the Mathematics Club (Chi Tau Omega) and the Mathematics Teacher Education Club. The former is a Student Chapter of the Mathematical Association of America, and the latter a Student Affiliate of the National Council of Teachers of Mathematics Both clubs hold academic and social activities, and help sponsor trips to professional meetings. In addition, Fredonia has a chapter of Pi Mu Epsilon, a national honorary society devoted to the promotion of scholarly activity in mathematics by students.

Two scholarships are awarded annually to mathematics majors based on academic performance and faculty

recommendations: the Frank R. Olson Scholarship in Mathematics and the Earl G. Mathewson Scholarship in Mathematics Education.

For further details about the programs in mathematics contact Dr. H. Joseph Straight, chairperson of the Department of Mathematics and Computer Science. Interested persons should see page 17 for the programs offered in Computer and Information Sciences.

Requirements for the Bachelor of Science Degree in Mathematics Liberal Arts Track (45 or 46 credit hours): CSIT 106 Scientific Programming 3 Using C++ or CSIT 121 Computer Science I 4 University Calculus I **MATH 122** 4 MATH 123 University Calculus II 4 MATH 210 **Discrete** Mathematics 4 MATH 223 University Calculus III 4 MATH 224 **Differential Equations** 3 MATH 231 Linear Algebra 4 MATH 323 Intermediate Real Analysis 3 **MATH 331** Abstract Algebra 3 MATH 405 Senior Seminar 1 MATH 420 Advanced Calculus 3 **STAT 350** Probability and Statistics 3 Two additional MATH or STAT 6 courses numbered 311 or higher, as advised Total hours in Liberal Arts track: 45 or 46 Cooperative Engineering students following this track may substitute PHYS 425 for MATH 420. Students in the Liberal Arts track are strongly advised to take additional in computer science courses consistent with their career and educational objectives. Applied Mathematics Track

This track contains two options, both of which require the following Applied Mathematics Core:

MATH 323

MATH 331

MATH 341

MATH 381

MATH 405

STAT 350

CSIT 106	Scientific Programming Using C++	3
	or	
CSIT 121	Computer Science I	4
MATH 122	University Calculus I	4
MATH 123	University Calculus II	4
MATH 210	Discrete Mathematics	4
MATH 223	University Calculus III	4
MATH 224	Differential Equations	3
MATH 231	Linear Algebra	4
MATH 329	Mathematical Modeling	3
MATH 405	Senior Seminar	1
STAT 350	Probability and Statistics	3
Total Hours		~ .
Mathematics	Core 33	or 34

Mathematics Core

Applied Mathematics/Economics Option: This option requires the Mathematics Core and the Applied following courses: **ECON 201** Principles of 3 Macroeconomics **ECON 202** Principles of З Microeconomics **ECON 300** Statistics for Economics 3 and Business **ECON 305** Intermediate 3 Microeconomic Theory **ECON 310** Intermediate 3 Macroeconomic Theory ECON 400 **Basic Econometrics** 3 ECON 410 Mathematical Economics 3 MATH 365 Financial Mathematics 3 One additional MATH or STAT course 3 numbered 311 or higher Total hours in Applied 60 or 61 Mathematics/Economics Option Note: In satisfying the requirements of the above option, the student will earn a minor in Economics; by completing three additional courses in economics, students in this track can have a double major in Mathematics and Economics. Applied Mathematics/Statistics and Operations Research Option: This option requires the Applied Mathematics Core, a minor in a field to which statistics or operations research can be applied, and the following courses: **STAT 355** Mathematical Statistics 3 Two of the following three courses: 6 Probability Models in MATH 359 Operations Research **MATH 375** Deterministic Models in Operations Research STAT 351 Applied Statistics One additional MATH or STAT course 3 numbered 311 or higher Total hours in Applied 45 or 46 Mathematics/Statistics (plus a minor) and Operations Research Option Adolescence Education -Mathematics Track (79 credit hours): **MATH 122** University Calculus I 4 **MATH 123** University Calculus II Δ MATH 210 Discrete Mathematics 4 MATH 223 University Calculus III 4 MATH 231 Linear Algebra 4 **MAED 310** Reading and Writing 3 Mathematics

Intermediate Real Analysis

History of Mathematics

Probability and Statistics

Abstract Algebra

Senior Seminar

Geometry

3

3

3

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3

MEDICAL TECHNOLOGY/

BIOMEDICAL

RESEARCH TECHNOLOGY

45

One additional MATH or STAT course 3 numbered 31 1 or higher Introduction to EDU 105/ 3 Contemporary Education 106 Adolescent Development EDU 224 3 and Child Abuse Workshop Introduction to the 3 EDU 250/ Exceptional Learner 251 EDU 276 Foundations of Literacy 3 and Technology HLTH 300 Drugs and Alcohol 1 Education EDU 305/ Cultural and Linguistic 3 Diversitv 313 in the Classroom Educational Psychology FDU 349 3 and Child Abuse Workshop Secondary School FDII 419 3 Methods Student Teaching 15 EDU 430 Total Hours in Adolescence Education 79 - Mathematics Track Middle Childhood Education Mathematics Specialist Track (81 credit hours): University Calculus I MATH 122 4 University Calculus II MATH 123 4 Mathematics for School MAED 301 3 Teachers 1 3 Mathematics for School MAED 302 Teachers II MATH 210 Discrete Mathematics 4 Linear Algebra 4 MATH 231 Mathematics for School MAED 303 3 Teachers III 3 **MAED 310** Reading and Writing Mathematics MATH 341 Geometry 3 History of Mathematics **MATH 381** 3 Senior Seminar MATH 405 1 **STAT 150** Statistical Ideas or Statistical Methods 3 STAT 200 or Probability and Statistics **STAT 350** One additional MATH or STAT course 3 numbered 311 or higher EDU 1051 З Introduction to Contemporary Education 106 EDU 224 Adolescent Development 3 and Child Abuse Workshop EDU 250/ Introduction to the 3 Exceptional Learner 251 Foundations of Literacy 3 EDU 276 and Technology HLTH 300 Drugs and Alcohol 1 Education EDU 305/ Cultural and Linguistic 3 313 Diversity

in the Classroom

School

Teaching in the Middle

EDU 321

EDU 349 Educational Psychology 3 and Child Abuse Workshop EDU 417 Middle School Methods 3 EDU 428 Student Teaching 15 Total Hours in Middle Childhood 81 Education - Mathematics Specialist Track Students in all certification programs are required to demonstrate competence in a foreign language. This requirement may be satisfied either by (1) completion of three or more years of study of a foreign language in high school, with a grade of 65 or higher on the Regents Examination, or (2) completion of foreign language coursework at the 116-level at Fredonia, or equivalent. The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral. mathematics majors must complete All a science course and its laboratory selected from the following: Chemistry: CHEM 115 and CHEM 125 Physics: PHYS 230 and PHYS 232 (Majors in the Middle Childhood Mathematics Specialist Track may satisfy this requirement by taking SCI 301, 302, and 303.) Requirements for the Minor in Mathematics MATH 122 University Calculus I 4 MATH 123 University Calculus II 4 Discrete Mathematics MATH 210 4 MATH 223 University Calculus III 4 9 or 10 Plus three additional MATH or STAT courses chosen from MATH 224, MATH 231, and courses numbered 311 or higher Total hours required: 25 or 26 Requirements for the Minor in Applied Mathematics MATH 122 University Calculus I 4 University Calculus II MATH 123 4 MATH 223 University Calculus III 4 MATH 231 Linear Algebra 4 Plus three additional courses 9-11 chosen from MATH 224, 322, 325, 329, 337, 359, 365, 375, 440, STAT 350, 351, 355, PHYS 425, 426, CSIT 241, 242; at least one of these courses must be a MATH or STAT course numbered 311 or higher

3 Total hours required:

25-27

A student may not minor in both Mathematics and Applied Mathematics.

(Media Arts, see Visual Arts and New Media, page 75)

MEDICAL TECHNOLOGY/ BIOMEDICAL RESEARCH TECHNOLOGY

(see also Biology) Office: 112 Jewett Hall (716) 673-3283 E-mail: Medical.Technology@fredonia.edu Patricia Smith Astry, Director

multi-faceted educational approach of this program prepares students for careers in several high demand areas of science. (There are currently eleven clinical positions in hospitals alone available for each medical technologist in the United States!) Recent program graduates are employed as clinical scientists in hospital laboratories, industrial and biotechnology laboratories. and biomedical research facilities; and as sales representatives for pharmaceutical. medical instrumentation and computer corporations. Students interested in applying to medical school should refer to the Pre-Medicine section on page 61.

The innovative combination of a traditional program track in Medical Technology with a unique track in Biomedical Research Technology gives the graduate of the SUNY Fredonia program unique advantages in gaining employment in the aforementioned areas.

The first two years of the program include core courses in biology, chemistry, physics and mathematics that are required of all MT/BMRT majors. During the latter part of the sophomore year, students are encouraged to select one of the following program tracks:

Track I: This program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences and the American Medical Association Council on Health Education. It is recommended for students wishing to prepare for careers in hospital laboratories, the biomedical industry. pharmaceutical and instrumental sales. The curriculum requires the student to study three years at SUNY Fredonia and one year in an accredited clinical hospital program. Contracted agreements with five hospitals ensure internship placement for qualified students who have successfully college completed requirements. Entrance to the clinical program is highly competitive and based on a minimum 3.0 GPA and letters of recommendation. The clinical year consists of study in a hospital laboratory where students are supervised and instructed by medical technologists and physicians. After successful completion of the internship, students receive clinical certification from the hospital, 30 college credits, and the Bachelor of Science degree in Medical Technology from SUNY Fredonia. Students are then eligible to take national medical certification examinations for technology, such as the National Registry Examination given by the American Society of Clinical Pathologists.

The percentage of Fredonia Medical Technology students passing this Registry Examination on the first attempt has been 99 percent over the past 10 years, compared to a national passage rate of only 68 percent.

Under affiliation agreements entered into by the college, the training of students takes place under the direction of the persons at the following hospitals:

W.A. Thomas, M.D., Medical Director, Medical Technology Program, Albany Medical Center Hospital, Albany, NY.

Joseph T. King, M.D., Medical Director, Medical Technology Program, Robert Packer Hospital, Sayre, PA.

Brian Spezialetti, M.S., MT(ASCP), Program Director, Medical Technology Program, Robert Packer Hospital, Sayre, PA.

Michael F. Briselli, M.D., Medical Director, Medical Technology Program, Rochester General Hospital, Rochester, NY.

Nancy Mitchell, M.S., MT (ASCP), Program Director, School of Medical Technology, Rochester General Hospital, Rochester, NY.

Stephen Johnson, M.S., MT (ASCP), Program Director, Medical Technology Program, St. Vincent's Hospital, Erie, PA.

Kenneth Jurgens, M.D., Medical Director, Medical Technology Program, St. Vincent's Hospital, Erie, PA.

Donald Furman, M.D., Medical Director, Medical Technology Program, WCA Hospital, Jamestown, NY.

Michele Harms, M.S., MT (ASCP), Program Director, Medical Technology Program, WCA Hospital, Jamestown, NY.

Track II: This option is recommended for students interested in graduate school and for medical laboratory technicians (A.A.S.) wishing to complete a B.S. degree program. The student must complete the course work required in Track I, as well as a concentration of 22 credit hours. Required courses in the concentration include: CSIT 104 or CSIT 105, CHEM 317, 327, BIOL 340, and a statistics course. The remaining concentration courses are directed toward the career goal of the student.

Track III: This option combines the requirements of Tracks I and II, enabling the student to be well qualified for all clinical, research, industrial, and sales opportunities mentioned earlier. After four years of study completing requirements and concentration courses at Fredonia, the qualified student may complete a clinical year of study at a hospital as described under Track I. Upon successful completion of Track III, the B.S. degree is awarded.

Requirements for the Bachelor of Science Degree in Medical Technology

30

22

Required	Biology Courses:	
BIOL 144-	Animal Biology and	4
145	Evolution & Lab	
BIOL 221	Human Anatomy	3
BIOL 241 -	Introductory Cell Biology	4
242	& Lab	
BIOL 256	Intro. to Clinical Sciences	1
BIOL 333-	Biochemistry & Lab	4
334		
BIOL 335	Genetics	3
BIOL 336-	Mammalian Physiology &	4
337	Lab	
BIOL 338	Microbiology	3
BIOL 344	Parasitology	1
BIOL 431	Senior Seminar	1
BIOL 453	Basic Hematology	1
BIOL 461	Immunology and Serology	3
	5, 6,	-32
		22

Clinical Internship or Biomedical Research Concentration

Required	Supporting Courses:	
CHEM 115-	General Chemistry I & II	8
116	and CHEM 125-126 (Labs)	
CHEM 215-	Organic Chemistry I & II	8
216	and CHEM 225-226 (Labs)	
MATH 120	Survey of Calculus I	
	or 30	or 4
MATH 122	University Calculus I	
PHYS 121-	College Physics I & II and	
122	PHYS 123-124 (Labs)	
	or	8
PHYS 230-	University Physics I & II	
231	and PHYS 232-233 (Labs)	
	CSIT 105. or BUAD 164 or	2
0311 104 01	USH 100, ULDUAD 104 01	3

BUAD 300, or COMM 221, or PSY 347, or SOC 326 30 or 31 Chemistrv and mathematics courses should be completed by the end of the sophomore year, physics courses by the end of the junior year.

CLINICAL HOSPITAL COURSES

Each hospital uses slightly different names in categorizing areas of study. The basic categories are as follows:

CLINICAL CHEMISTRY: Lecture and laboratorv involvina the sequence study and detection of biochemical components in body fluids. Methodology, theory, disease states, and instrumentation are stressed.

CLINICAL MICROBIOLOGY: Lecture and laboratory rotation in which bacteria, fungi, parasites and viruses are studied, the emphasis being on Biochemical, bacteria. morphological and serological properties are emphasized.

HEMATOLOGY/COAGULATION: Lecture and laboratory sequence concerned with the study of blood. Theory and techniques dealing with cellular components and coagulation mechanisms of normal and abnormal blood are major topics.

IMMUNOHEMATOLOGY (Blood Bank): Lecture and laboratory rotation dealing with the immunological properties of the blood, especially concerning the various blood groups and transfusion therapy. (Other theories and techniques of basic immunology may be included here or in another category.)

URINALYSIS: Lecture and laboratory presentation of normal and abnormal physical, chemical, and cellular properties of urine.

MODERN LANGUAGES AND LITERATURES

Office: 2111 Fenton Hall (716) 673-3380 E-mail: Modern. LanguagesQfredonia.edu French.Language@fredonia.edu Spanish.Language@fredonia.edu Howard B. Wescott, Chairperson

Students preparing for work in the modern language field should strive toward language competence and, in addition, should build a background in a variety of subjects, particularly those relating to the cultural heritage of the foreign country whose language they are studying. Language instruction is offered in French, German, Italian or Spanish. A major may be earned in French or Spanish, or a double major in these two languages. Other



individually designed programs of combination majors are encouraged. See the chairperson for assistance.

Majors, minors and modern language concentration students are encouraged to travel, if at all possible, to a foreign country (France, Spain, or a country in Latin America) for a semester or even two semesters of study abroad in their junior year. This foreign travel and study at such schools as the University of Salamanca in Spain, or the Institut de Touraine in France, has proven enormously enriching for students who have participated in these overseas programs. Equally enriching have been the international study programs in Mexico and in the French-speaking province of Quebec. International Education programs are not restricted to language majors. They are available to any SUNY Fredonia student in virtually every department who wishes to pursue their studies at foreign institutions of distinction. The department sponsors the French Club and the Spanish Club, and has affiliation with two national honor societies: Pi Delta Phi in French and Sigma Delta Pi in Spanish.

The Robert Rie Foreign Language Scholarships are awarded each year to a number of upper level undergraduate modern language majors who demonstrate outstanding academic ability, commitment to the field of study, and are recommended by the language faculty to the chairperson of the department. Application information may be obtained from the department.

Requiremer	ts for the Bachelor	of
	e in French	
36 credit hou	irs in French	Hrs.
FREN 315	French Masterpieces I	3
FREN 317	French Conversation	3
FREN 318	French Cornposition	3
FREN 319	Survey of French	3
	Literature I	
FREN 320	Survey of French	3
	LiteratureII	
FREN 421	Diction	3
FREN 423	Senior Seminar	3
FREN 424	Stylistics	3
Plus 12 addi	tional credit hours of 300	12
or 400 level	French courses.	
		36

Requirements for the Bachelor of Arts Degree in Spanish

0	•	
36 credit hou	rs in Spanish	
SPAN 315	Introduction to Hispanic Literature	3
SPAN 317	Spanish Conversation	3
SPAN 318	Spanish Composition	3
SPAN 319	Survey Spanish Literature I	3
SPAN 320	Survey Spanish Literature II	3
SPAN 325	Survey Span Amer. Literature	3
SPAN 423	Senior Seminar	3
SPAN 424	Spanish Creative Writing	3
Plus 12 addit	tional credit hours of 300	12
or 400 level \$	Spanish courses.	
		36

Childhood and Early Childhood Education majors may earn a concentration in French or Spanish. Consult the School of Education's catalog description or the course requirements of these programs.

Students who desire to teach French or Spanish in the secondary schools may obtain provisional certification by completing the program described above and the required courses in Professional Education. The procedure to be followed for admission to the professional sequence of courses is as follows:

Students wishing to enter the program must inform the department chairperson by October 15 of the year before their participation in Secondary (Adolescence) School Methods. The department will recommend those students who demonstrate superior competency (a minimum GPA of "B in their major language courses), responsibility, dependability, maturity, and a clear grasp of the realities of the teaching profession. The coordinator will decide on a student teaching assignment for each student favorably recommended. The Secondary School Methods course will be taken in the fall semester immediately preceding student teaching. Admission is limited to those students planning to follow the course with a semester of student teaching. In order to proceed in this manner, students must earn a minimum grade of "C+" in Secondary School Methods. During the first weeks of student teaching, students will enter into an individually designed written agreement with the college supervisor and cooperating teacher, concerning their work in the assignment.

Requirements for the Minor in French or Spanish

A student may qualify for a minor in any one of the two major languages offered by the department. The minor requires 18 credit hours beyond the 116-level chosen under advisement and with departmental approval.

Requirements for Transfer Credit

For a major, a limit of 12 transfer credits may be counted toward those required, i.e., a minimum of 24 credit hours must be taken in the department at SUNY Fredonia.

For a minor, a limit of 9 transfer credits may be counted toward the 18 required, i.e.; a minimum of 9 credit hours must be taken in the department at SUNY Fredonia

Notes:

1. Ordinarily one year of high school preparation in foreign language serves as the equivalent of one semester of college language. At the discretion of the

language instructor, students may be placed in a more or less advanced section of a language course than their high school credits would indicate, dependent upon the intensity of their preparation.

2. Unless otherwise specified, all courses are conducted principally in the appropriate foreign language.

3. The department encourages students to participate in overseas programs in France, Germany, Spain, and other countries. Plans therefore should be initiated before the junior year, when students normally take advantage of this opportunity.

(Molecular Genetics, see Recombinant Gene Technology, Page 63)

MULTI-ETHNIC STUDIES

(Interdisciplinary Studies minors only) Elizabeth Hoffman Nelson, *Coordinator* Office: 251 Fenton Hall (716) 673-3863 E-mail: Multiethnic.Studies@fredonia.edu

African American Studies

Najia Aarim, *Coordinator* Office: E308 Thompson Hall (716) 673-3883 E-mail: AfricanArnericanStudies @fredonia.edu

American Indian Studies

James Stevens, *Coordinator* Office: 269 Fenton Hall (716) 673-3850 E-mail:AmericanIndian.StudiesQfredonia.edu

Latino Studies

Michael Brescia, *Coordinator* Office: E317 Thompson Hall (71 6) 673-3880 E-mail:Latino.Studies@fredonia.edu

The Multi-ethnic Studies program is designed to meet the college's commitment to multiculturalism. academic diversity, and interdisciplinary studies. The program's emphasis on "a global perspective," "socio-ethical understanding," and "international and multicultural studies" corresponds with the SUNY Fredonia Vision Statement and the college's mission to prepare students to be able to work with diverse people in what has increasingly become a world economy. In addition, the program supports the college's commitment to diversity and Affirmative Action and the president's efforts to recruit and retain students of color. The Multi-ethnic Studies program, undergoing constant growth and development, consists of African American Studies, American Indian Studies, and Latino Studies.

Requirements for the Minor in African American Studies

Requirements may differ according to date of enrollment. Current students should check their college catalog.

The African American Studies minor provides an interdisciplinary investigation of the origins, experiences, conditions, accomplishments, and contributions of people of African ancestry in the Americas. The program is designed for all students who want to deepen their understanding of African Americans by studying their earlier history in Africa, their transition to the New World, and their diasporic experiences in the Americas. The program also seeks to promote new ways of thinking about race, culture and social representation from different perspectives-notably, historical, literary. sociological, anthropological, psychological and artistic.

Required: 21 credit hours from the following. Students declaring an African American Studies minor may use past courses retroactively after consultation with the coordinator.

Required (Course (3 credit hours):	
INDS 2201	Introduction to Ethnicity	
HIST 220	and Race	

3

Core Co	ourses (9 credit hours):	
HIST 33	· · · · · · · · · · · · · · · · · · ·	3
	to 1877	
HIST 33	34 African American History	3
	since 1877	
ENGL 2	2401 African American	3
INDS 24	40 Literature and Culture	

Electives (6 credit hours - two courses; one in each of two disciplines; must not include a course that has been used for core course credit):

AMST 210	American Popular and Mass Cultures (with approval of the coordinator)	3
ANTH 322	Anthropology of Africa	З
ANTH 324	Anthropology of the Caribbean	3
COMM 359	Special Topics in Media (with approval of coordinator)	3
COMM 451	Radio Documentaries (with approval of coordinator)	3
COMM 452	Video/Film Documentaries I (with approval of coordinator)	3
COMM 465	Intercultural Communication (with approval of coordinator)	3
DANC 231	African Caribbean Dance	3
EDU 305/ 313	Cultural and Linguistic Diversity in the Classroom and Field Experience (with approval of coordinator)	3

ENGL 296	American Identities (with approval of coordinator)	3
ENGL 299/ 399/499	Special Topics (with approval of coordinator)	3
ENGL 334	Realism/Naturalism in American Literature (with approval of coordinator)	3
ENGL 340	Black Women Writers	3
ENGL 341	Harlem Renaissance	3
ENGL 344	Contemporary Multicultural American Literature (with approval of coordinator)	3
ENGL 342	African American Autobiography	3
HIST 272	African History to 1880	3
HIST 273	African History Since 1880	3
HIST 299/	Special Topics (with	3
399	approval of coordinator)	Ũ
HIST 328	Civil War Era	3
HIST 344	African American Social	3
	Thought	
HIST 351	Defining America (with approval of coordinator)	3
HIST 366	African American Women's History	3
HIST 387	Comparative Slave Societies	3
LANG 400	Special Topics (with approval of coordinator)	3
MUS 265	History of Jazz	3
MUS 267	African American Music	3
MUS 361	Jazz Improvisation (with	3
1000 301	approval of coordinator)	0
MUS 362	Jazz Theory (with approval	3
1000 302	of coordinator)	0
MUS 363	Jazz Pedagogy (with	3
1003 303	approval of coordinator)	3
	Topics in American Politics	3
POLI 329	•	
POLI 334	African Politics	3
POLI 371	Civil Rights and Liberties	3
SOC 201	Social Problems (with	3
	approval of coordinator)	_
SOC 360	Criminal Justice System (with approval of coordinator)	3
SOC 366	Sociology of Corrections (with approval of	3
	coordinator)	~
SOC 316	Minority Groups	3
WOST 377		3
	approval of coordinator)	
Capstone Co	ourse (3 credit hours):	
INDS 402	Independent Study:	3
	African American Topics	-
INDS 491	African American Studies	3
	Internship: African	0
	American Organization	
	-	

Requirements for the Minor in American Indian Studies

The American Indian Studies provides an interdisciplinary study of the anthropological, historical, cultural, educational and political developments that have formed present day Native America. The program is designed for students with the desire to better understand American Indian and Alaskan Native cultures by studying pre-contact history via oral tradition, post-European contact via biography, and present day "Indian Country" through federal policies, films, and literature. American Indian ethnic identities and stereotypes, as formed by these media, will be studied to promote new ways of thinking about race and culture. The multi-disciplinary nature of the minor allows for participation from students of all backgrounds in developing a new view of American Indian cultures while helping to dispel the Pan-Indian stereotype endemic in the American education system.

Requirements may differ according to date of enrollment. Current students should check their college catalog.

Required 21 credit hours from the following, beginning with Introduction to Ethnicity and Race (HIST 220). Students declaring a minor may use past courses retroactively after consultation with the coordinator.

Required Course (3 credit hours): INDS 220/ Intro. to Ethnicity and HIST 220 Race Core Courses (9 credit hours): INDS 105 Introduction to American Indian Studies Minors must take one course in both Literature and History.

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Literature:

ENGL 242/ INDS 242	Introduction to American Indian Literature
History:	
(One course	from the following choices)
HIST 282	Pre-Columbian and
HIST 283	Colonial Latin America Revolution and Reform in Latin America
HIST 289	Comparative North America
HIST 325	Colonial America
HIST 356	American Indian History
HIST 358	Twentieth Century
HIST 380	American Indian Issues Pre-Columbian/Colonial
11101 300	Mexico
HIST 381	Mexico in the Modern World
Electives (6	credit hours):
ANTH 321	Anthropology of Indian America
ANTH 350	Prehistory of North America (Special Topics)
ART 229	American Indian Art Studio I
SOC 316	Minority Groups

Credited with approval from coordinator: EDU 305 Cultural & Linguistic Diversity in the Classroom	3
EDU 313 Cultural and Linguistic Diversity - Field	3
Experience HIST 340 The Western Movement	3
Proposed courses include American Indian Literature in Translation, American Indian Poetry, and America Indian in Film.	an
Capstone Course (3 credit hours):	
INDS 404 Independent Study or	3
INDS 492 American Indian Studies Internship	
Courses offered as Special Topics ca be credited toward the minor with approval from coordinator of the American Indian Studies Minor.	an
Requirements for the Minor in Latino Studies	
The Latino Studies minor provides interdisciplinary study of the historica political, social, educational, econom and cultural developments that affect Latinos of the Americas. "Latino" has been defined broadly to include not	ic,

defined broadly to include not only Spanish-speaking minorities in the United States, but the indigenous and Latin American (including Portuguese-speaking Brazilians) background of Latinos and Latinas in the United States.

Requirements may differ according to date of enrollment. Current students should check their college catalog.

3 Required 21 credit hours from the following. Students declaring Latino 3 Studies minor may use past courses retroactively after consultation with the 3 coordinator.

Required Course (3 credit hours): INDS 220/ Introduction to Ethnicity HIST 220 and Race Core Courses (9 credit hours):

Note: Students are required to take one semester of language, unless otherwise advised by the program coordinator, and one course from each of the remaining groups listed below -Literature and History. All courses from the Department of Modern (Foreign) Languages and Literatures designated as LANG are taught in English with the exception of LANG 400 Special Topics, which may be 3 taught in Spanish or English, as determined by the instructor; all courses designated SPAN are taught in Spanish.

Language: SPAN 215	Intermediate Spanish I (or equivalent)	3
Literature: ENGL 241/ INDS 241	Introduction to Latino Literature	3
History:		
	from the following choices:	
HIST 282	Pre-Columbian and	3
	Colonial Latin America	-
HIST 283	Revolution and Reform in	3
1101 200	Latin America	Ŭ
HIST 289	Comparative North	3
	America	Ŭ
HIST 380	Pre-Columbian and	3
	Colonial Mexico	Ŭ
HIST 381	Mexico in the Modern	3
	World	0
Electives (6	credit hours; two courses, on	~
	vo disciplines):	
ANTH 324	Anthropology of the	3
,	Caribbean	Ŭ
COMM 360	Mexican Cinema/Video	3
ENGL 299/	Special Topics (with	3
399/499	approval of coordinator)	0
ENGL 304/	Latina Literary and	3
INDS 304	Cultural Studies	U
HIST 299/	Special Topics (with	3
399	approval of coordinator)	U
HIST 480-	Topics in Latin American	3
484	History	0
LANG 327	Sex and Magic in Latin	3
	American Literature	Ŭ
MUS 334	Music of Latin America	3
POLI 371	Civil Rights and Liberties	3
	(with approval of	U
	coordinator)	
PSY 299	Special Topics (with	3
	approval of coordinator)	Ũ
SOC 316	Minority Groups	3
SOC 350	Special Topics (with	3
000 000	approval of coordinator)	Ũ
SPAN 315	Introduction to Readings in	3
	Hispanic Literature	Ũ
SPAN 317	Spanish Conversation	3
SPAN 325	Survey of	3
	Spanish-American	
	Literature	
SPAN 377	Special Topics	3
SPAN 425	Spanish-American Fiction	3
WOST 203	Chicana Writers/	3
	Visual Artists	-
Capstone C	course (3 credit hours):	
INDS 403	Independent Study: Latino	
	T .	

Capstone	course (3 credit nours):	
INDS 403	Independent Study: Latino	
	Topics	
	or	3
INDS 493	Latino Studies Internship: U.S. Latino Organizations	

MULTI-ETHNIC STUDIES 49

3

MUSIC

Office: 1004 Mason Hall (716) 673-3151 E-mail:Music.School@fredonia.edu Peter J. Schoenbach. Director Wade Weast, Associate Director Barry M. Kilpatrick, Assistant Director Curricular Area Chairpersons: Music History/Literature James A. Davis Music Theory Paul Murphy Sound Recording Technology Bernd Gottinger Music Education W. Stephen Mayo Music Therapy Joni Milgram-Luterman Music Composition Donald J. Bohlen Applied Studies Phyllis 0. East, Keyboard Kay H. Stonefelt, Percussion/Harp Susan Royal, Woodwinds Harry P. Jacobson, String Marc J. Guy, Brass Julie Newell and Patricia Corron, Voice

The School of Music, SUNY Fredonia is a nationally recognized undergraduate and graduate professional program. Its mission is to prepare students for artistic and professional success in music education, music theatre, performance, music therapy, sound recording, and composition.

An audition is required for admission to a Music program. Although accepted students are admitted directly into a Music major curriculum, many first-year students are uncertain about the specific major in Music they wish to pursue. Therefore, all first-year students have essentially the same course work. In the first semester, all freshmen meet once each week in Music Freshman Seminar, a one credit hour course that explores the music program, presents professional options after graduation, and introduces world music. Guests include faculty, alumni, and other professional musicians who talk about their lives and jobs. During the second semester, after they have had opportunities to attend general orientation sessions, speak privately about their musical aspirations with advisors, have their abilities assessed by their teachers, and experience the demands made of Music majors, freshman Music students must review the declaration of a major.

The next section describes a Core Curriculum of required studies common to every Music degree

program, followed by lists of the specific requirements for each degree program as accredited by the National Association of Schools of Music. Core Curriculum: 35 credit hours MUS 001 Freshman Music Seminar 1 MUS 100 Recital Seminar 0 MUS 120 Concert Attendance 0 MUS 021 -Ensembles 0 050 MUS 105-Applied Music Δ 106 (125-126 for Mus.B. Music Education and Performance) MUS 113 Voice Class 1 Piano Class - waive for MUS 117-2 piano majors 118 MUS 121-Aural Theory I & II 4 122 MUS 123-Written Theory I & II 4 124 MUS 131-Applied Musicianship I & II 2 132 MUS 221-Aural Theory III & IV 4 222 MUS 223-Written Theory III & IV 4 224 MUS 263 Music History in Western 3 Civilization MUS 264 Topics in Music History 3

MUS XXX Music History Core Elective

3

Bachelor of Arts Degree Programs in Music

Note: This program requires 75 credit hours outside of Music.

General	Requirements	
Core Curric	ulum	35
MUS 200	Recital Seminar	0
MUS 205-	Applied Music	4
206		
MUS 217-	Piano Class (waive for	2
218	Piano Majors)	
MUS 300	Recital Seminar	0
MUS 305-	Applied Music	4
306		
One major e	ensemble for each	0
semester of	enrollment in applied	
music		
		45

A. For a Major in Music, Instrumental (49 credit hours):

General	Req	uirements	S		45
MUS	400	Re	cital	Seminar	0
MUS 40	5-	Applied	Music		4
406					
Graduati	on	Recital			0

MUS 137-Diction for Singers 140 MUS 400 Recital Seminar MUS 405-Applied Music 406 Graduation Recital Note: Voice students in the Music degree program are strongly encouraged to complete the same language requirement as performance majors (see page 52), thus utilizing foreign language offerings to partially complete the required 75 hours outside the major area. Bachelor of Fine Arts with a Major in Musical Theatre For program description and requirements, see page 54. Bachelor of Science Degree with an

B. For a Major in Music, Voice (51

45

2

0

4

0

hours):

General Requirements

credit

emphasis in Sound Recording Technology For program description. requirements, and SRT course descriptions, see pages 66 and 181.

Bachelor of Music Programs in Music Education

For the Major in Music Education (Mus. B. degree, certification to teach music in the public schools):

The Music Education degree program provides the means for students to acquire and demonstrate the required competencies for certification to teach music in the elementary and secondary schools. The New York State Education Department also requires a standardized test of both general and professional knowledge (the Liberal Arts and Sciences Test-LAST, and the Assessment of Teaching Skills-Written Test-ATS-W), fingerprinting and designated state workshops for all students recommended for teaching certification in music. Dee

Requirements:	
lum	35
Recital Seminar	0
Piano Class	2
Applied Music	4
Conducting I & II	4
Recital Seminar	0
Applied Music	4
Introduction to Public	0
	4
Educ. I & II	
	lum Recital Seminar Piano Class Applied Music Conducting I & II Recital Seminar Applied Music

MUED 255- 256	Practicum
MUED 291	Technology in Music I
MUED 300	Foundations of Music Educ. III
MUED 355- 356	Practicum
	Professional Semester mble participations

Each student must declare a General/Choral or Instrumental concentration.

General/Choral Concentration requirements are:

For Non-Piano/Non- Voice Students: MUS 317-318, 417, MUED 203-204, 210-211, 301, 302, 391-392. Music Education electives by advisement, including brass, woodwinds, string and percussion secondary instruments. A minimum of six of the twelve ensemble participations must be in choral ensembles.

For Keyboard Students: MUS 415-416, MUED 203-204, 210-211, 301, 302, 391-392. Music Education electives by advisement, including brass, woodwinds, string and percussion secondary instruments. A minimum of six of the twelve ensemble participations must be in choral ensembles.

For Voice Students: MUS 137-138, 139-140, 317-318, 417, MUED 210-211, 301, 302, 391-392. Music Education electives by advisement, including brass, woodwinds, string and percussion secondary instruments. A minimum of six of the twelve ensemble participations must be in choral ensembles.

Instrumental Concentration requirements are:

For Instrumental Applied Students: MUED 161-164, 171-175, 185-187, 221-222, 260-264, 271-275, 285-287, 301 or 302, 304-305, 393-394, as designated by the Music Education Handbook. Successful completion of competency examinations on specified secondary instruments. Music Education electives by advisement. A minimum of two of the twelve ensemble participations must be in choral ensembles, and one in small ensembles.

For Keyboard or Voice Students (this option only by permission of the Area Chair for Music Education): MUS 315-316 (additional permission required), MUED 161-164, 171-175, 185-187, 221-222, 260-264, 271-275,

285-287, 301 or 302, 304-305, and 393-394. Successful completion of competency examinations on specified secondary instruments. Music Education electives by advisement.

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A minimum of four of the twelve ensemble participations must be in instrumental ensembles and two in choral ensembles. A minimum of two semesters Secondary Applied (MUS 315/316) or other approved private study on an orchestral instrument (woodwind, brass, string, or percussion).

Students who can demonstrate the competencies and any additional requirements associated with any course will be excused from taking the course. However, since there is no upper limit in skill development, it is recommended that students use the time thus saved to complete a like amount of advanced course work from the area(s) in question. Students are encouraged to elect as much additional course work as possible in their concentration. in music education, or in performance, theory, history and literature in consultation with their academic advisor and/or the Chair for Music Education.

Students must complete at least 120 total credit hours of course work in order to meet the minimum college requirements for the awarding of a degree.

Professional Standing is the recognition that students have successfully completed all requirements to enter junior level Music Education course work. At the end of sophomore year, each student will submit a formal application for Professional Standing and must demonstrate the following:

1.2.75 overall GPA (no MUED class lower than C)

2. Music Theory completed (MUS 222 and 224)

3. MUED 150, 250 and 251 completed

4. Two practica completed

5. Secondary Instrument Competencies: vocal (MUS 317, MUED 204); instrumental (four playing classes, four proficiencies, MUS 113, MUS 218)

Any student not meeting all standards will be denied acceptance into Professional Standing and will not be admitted into junior level Music Education course work. Music Education courses may be retaken only once.

Student Teaching

(Student teaching and assorted special seminar classes held irregularly during student teaching.) The student must have:

1. An overall 2.75 GPA;

2. An average of 2.5 in all MUED required courses and no less than a C in any single MUED course;

3. A 2.0 average in MUS required courses, with no grade less than D+

4. Satisfactorily completed all stated prerequisite competencies for performance, musicianship, and music education (most competencies must be completed prior to student teaching either through course completion or special examination; some will be determined during student teaching).

5. The recommendation of the Music Education professional staff, based on contact with the student in the Foundations in Music Education sequence of courses and the Methods Course sequence (viz., MUED 150, 250, 251, 300, 301, 302, 304, 305, 391, 392, 393, 394). Criteria are (1) attitude toward teaching music including realism and accuracy in understanding the profession, (2) commitment, responsibility, and dedication to professional growth (i.e."professionalism"), (3) ability to function under pressure, personal stability. (4) communication with professor(s) and peers, suitability of social adjustment and relations.

6. Completed and submitted student teaching application, personal data forms, and portfolio by the announced due dates.

Other Activities During the Professional Semester

Because of the time involved and the importance of student teaching in the preparation of a teacher:

1. Students may not participate in any college courses or formal (School of Music sponsored) extracurricular activities during the professional semester;

2. Students may not perform recitals, opera roles, concerto during the professional semester;

3. Students are urged to avoid other regular obligations, such as jobs, during the professional semester; student teachers often must stay after school for rehearsals and return evenings for rehearsals and concerts.

Bachelor of

Music

Programs

in

Bachelor of Composition	Music Program in	
	n Composition requires s in music, including the	95
Core Curricul	um	35
MUS 100- 400	Recital Seminar (Composition)	0
MUS 200- 300	Recital Seminar (Performance)	0
MUS 127- 128	Applied Music (Comp.)	2
MUS 225- 226	Applied Music (Comp.)	4
MUS 325- 326	Applied Music (Comp.)	4
MUS 425- 426	Applied Music (Comp.)	4
MUS 217- 218	Piano Class	2
MUS 205- 206	Applied Music (Performance)	4
MUS 231- 232	Conducting I and II	4
MUS 237- 238	Comp. Seminar	6
MUS 305- 306	Applied Music (Performance)	4
MUS 337- 338	Comp. Seminar	6
MUS 437- 438	Comp. Seminar	6
One course	by advisement to be	
selected from	n the following three:	
MUS 361	Jazz Improv.	2
MUS 404	Choral Arranging	2
MUED 291	Technology in Music I	2
MUS 401	Orchestration	3
MUS 403	20th Century Counterpoint	3
MUS 440	Comp. in Electronic Media I	
	or	3
MUS 441	Comp. in Electronic Media II	
or equivalent MUS 491	electronic media courses Senior Project in Composition	3
	e for each semester of cluding at least two vocal	
Four participa performance	itions in contemporary ensembles	
Senior compo	sition recital	
Completion of examination	f 20th century repertoire	
the Composition	sition students should cons on Program Chair for a list	of

the Composition Program Chair for a list of recommended electives and Core College Curriculum/General College Program courses which complement their program curriculum.

Performance	
General Requirements: Core Curriculum MUS 200 Recital Seminar MUS 245- Applied Music	35 0 8
246 MUS 300 Recital Seminar MUS 345- Applied Music 346	0 8
MUS 347- Applied Music Recitation 348	2
MUS 400 Recital Seminar MUS 445- Applied Music 446	0 8
MUS 447- Applied Music Recitation 448	2
Junior and Senior Recitals MUED 291 Technology in Music I	0 2 65
For a Major in Performance, Percussion (71 credit hours)	
General Requirements MUS 217- Piano Class 218	63 2
MUS 355- Performance Practicum 356	0
Music theory elective Music history elective Fourteen participations in ensembles	3 3
For a Major in Performance, Piano Pedagogy (77 credit hours)	
General Requirements	63_
Piano literature and pedagogy MUED 250 Foundations of Music	5 3
Education I MUS 470 Suzuki and Pace Methods Fourteen participations in ensembles,	4
including four in chamber ensembles MUS 415- Piano Class 416	2
For a Major in Performance Piano (70 credit hours)	
General Requirements Piano literature and pedagogy Fourteen participations in ensembles,	63 5
including four in chamber ensembles MUS 415- Piano Class 416	2

For a Major in Performance, Stringed Instruments (71 credit hours)

416

General Require	ments 63	3
MUS 217- Pia	ino Class	2
218 MUS 355- Pe	erformance Practicum	n
356		0

0	String literature and chamber music literature or Music theory and literature/history elective Fourteen participations in ensembles,	6
3	including four in chamber ensembles	
) }	For a Major in Performance, Voice (80 credit hours)	
2		3
	MUS 137- Diction for Singers	2
)	140	~
5	MUS 217- Piano Class 218	2
)	MUS 317-	
•	318 Piano Class	2
)	MUS 344 Vocal Pedagogy	3
)	MUS 417- Piano Class	2
;	418	
	(or successful completion of one semester of accompanying work under the supervision of the MUS 418 Class Piano teacher)	
2	Music theory elective	3
	Music history or literature elective	3
)	Fourteen participations in ensembles including four in Lyric Theatre-Practicum*	
3	A minimum of two semesters of German language and a minimum of two semesters	
	of one of the Romance languages (French Italian or Spanish).	,
	*All voice performance majors are required	

*All voice performance majors are required to have earned a minimum of four semesters Practicum credit by the time they graduate. The required freshman year participation in Practicum may count as one of the required semesters. The Lyric Theatre-Practicum may be earned in one of two ways: 1. By working on a set, costume, lighting, or running crew for one School of Music stage production during the semester that would require two to three evenings attendance a week for a period of approximately five weeks. 2. By performing a leading or secondary role or singing in the chorus of a college musical stage production during the semester.

For a Major in Performance, Wind Instruments (71 credit hours)	
General Requirements	63
MUS 217- Piano Class	2
218 MUS 255 Derformance Program	0
MUS 355- Performance Practicum 356	0
Music theory elective	3
Music history elective	3
Fourteen participations in ensembles,	
including four in chamber ensembles	

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Bachelor of Science Program in Music Therapy

The program is approved by the American Music Therapy Association and the National Association of Schools of Music, and is designed to provide academic, clinical, and professional preparation necessarv for entry-level music therapists. Students earn the Bachelor of Science in Music Therapy degree by completing an intense four-year program plus a clinical internship of at least six months. Upon completion of all degree requirements, students are eligible for professional membership in the American Music Therapy Association (AMTA), to sit for the Certification Board for Music Therapists (CBMT), and to become a Board Certified Music Therapist (MT-BC). All music therapy students are advised to minor in psychology.

Music Therapy majors must achieve a minimum grade of B- in all courses designated with the prefix MUTY. Core Curriculum 35 Harp Class MUS 019 1 MUS 042 African Drumming MUS 119 Free Improv. Recital Seminar MUS 200 MUS 205-Applied Music 206 MUS 217-Piano Class 218 MUS 231 Conducting I MUS 317-Piano Class 318 MUS 417-Piano Class 418 Successful Completion of Piano Proficiency Examination One course in arranging/composition, 2-3 selected from: MUS 237-238 Composition Seminar MUS 361 Jazz Improvisation MUS 401 Orchestration MUED 291 Technology in Music I MUS 404 Choral Arranging MUS 440 Composition in Electronic Media I Eight ensemble participations MUED 210- Guitar Class 211

MUED 310- 311	Guitar Class	2
MUTY 115	Introduction to Music Therapy	2
MUTY 270	Social Instruments	2
MUTY 300	Orientation to Clinical Practicum	1
MUTY 301	Seminar in Music Therapy (1 credit each for 6 semester	6 ers)
MUTY 302	Practicum in Music Therapy	0
MUTY 345	Foundations of Music Therapy	3
MUTY 401	Principles and Practice of Music Therapy	3
MUTY 414	Psychology of Music	3
MUTY 415	Methods and Materials in Music Therapy	3
MUTY 422	Psychological Research in Music	3
MUTY 450	Internship in Music Therapy	0
BIOL 121	Human Anatomy	3
EDU 225	Developmental Psychology	3
EDU 250	Into. to the Exceptional Learner	3
PSY 129	Intro. to Psychology	3
PSY 246	Personality	3
PSY 356	Abnormal Psychology	3
PSY 447	Intro. to Counseling	3

Related Programs

Concentration in Jazz Studies: 16 credit hours

This program is designed for students to pursue jazz through performance, historical context, and theoretical background. Developing skills in instrumental or vocal performance as well as the knowledge base for understanding this important musical medium is reflected in the required course work. Course work and ensemble participation beyond the minimum requirements is possible and encouraged.

The concentration in Jazz Studies is available to all music majors as a concentration within their major (Performance, Music Education, Music Therapy, Sound Recording Technology, or B.A. Music). It should be noted that the concentration in Jazz Studies is in addition to, and does not supercede nor replace, requirements for the student's declared major. Also, Music Education majors wishing to complete a concentration in Jazz Studies will do so in addition to their concentration in either Vocal/General Instrumental music education. or

Required Course Work for Concentration in Jazz Studies 6 credit hours in Music History per advisement (Le., African American Music, History of Jazz, American Music). Three (3) of the 6 credit hours can also serve as Music History credits within the student's major.

4 credit hours in Music Theory per advisement (Le., Aural Theory IV and Written Theory IV). These 4 hours can also serve as music theory credits within the student's major.

- 2 credit hours in Jazz Theory
 - 2 credit hours in Jazz Pedagogy
- 2 credit hours in Jazz Improvisation
- 2 semesters participation in Jazz Combo (0 credit hours)
- 2 semesters participation in Jazz Ensemble (0 credit hours).

Requirements for the Minor in Music

Thirty (30) credit hours. Applicants for the Music minor must achieve an acceptable score on the School of Music Aural Skills Test prior to admission to the program: MUS 121-122, 123-124 (or 101-102), 263, 264; four semesters of MUS 104; four participations in ensembles; and 12 credit hours of music electives in theory, history, literature or music education, at least 6 of which must be from upper division courses (300-400 level).

Music Concentration of the B.S. in Elementary Education (32 hours) MUS 121 -Aural Theory 4 122 MUS 123-Written Theory 4 124 choose any four Music History courses 12 MUED 315 Music. Play and Self 3 MUS 450-**Directed Studies** 4 451 Choose any three Piano Class 3 courses (beginning with MUS 118) Choose either Guitar Classes (MUED 2 210-211) or Social Instruments (MUTY 270)

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Requ	irements	for	the	Minor	in	Jazz
This	program	is f	or no	on-mus	ic ma	ijors:
30-32	credit	hours				
	ants for on prior am.					
MUS	104	Applied Non-Mi semest	usic I			4
MUS 118	117-	Piano	Class	, Elerr	nentary	2
MUS 122	121-	Aural 1	heory	I and	II	4
MUS	123-					
124		Written		•		4
MUS 132	131-	Applied	d Mu	isicians	hip	2
MUS	264	Topics or	in M	usic H	istory	3
MUS	115	Music	Appr	eciatior	า	
MUS	265	History	of J	azz		3
MUS	361	Jazz	Impro	visatior	า	2
MUS	021-050	(fou	r ense	mbles)		0
Music	Elective	es		,	6-8	hours
		Total:			30-32	hours

COURSES FOR NON-MUSIC MAJORS

The following courses have been designed especially for students who are not music majors. The School of Music will admit non-major students to certain music courses for which they have the interest and ability and for which they have met the course prerequisites. Exceptions to this policy are in studio classes (private instruction), where non-major students must audition and are then assigned on a space-available basis, and in MUS 121-124, where permission must be obtained from the School of Music.

MUS 104	Applied Music Class for Non-Majors
MUS 115	Music Appreciation
MUS 262	American Music
MUS 265	History of Jazz
MUS 267	African American Music
MUS 269	Music Criticism
MUS 333	Musics of the World
MUS 334	Latin American Music
MUED 315	Music, Play, and Self

Non-music majors are encouraged to perform in the All-College Band and/or the University Chorus (MUS 021-050), for which no audition is required. Non-major students may also audition to perform in all other School of Music ensembles.

Approved Majors	Music	Theory	Electives	for
MUS 237- 238	Con	nposition	Seminar	
MUS 403 MUS 337-	20th	Century	Counterpoi	nt
338	Com	position	Seminar	
MUS 354		and Ana		
MUS 361		Improvis		
MUS 372- 379	Spec	ial Topics	in Music	
MUS 401		estration		
MUS 404		al Arrang		
MUS 437,	Com	position	Seminar	
438, 439	0		- - - - - - - - - - -	_
MUS 440- 441		position II a Land II	n Electroni	С
441	Wica			
Approved Majors	Music	History	Electives	for
MUS262	,Ame	rican Mu	sic	
MUS 265	Histo	ory of Jaz	Z	
MUS 267		an Ameri		
MUS 333		cs of the		
MUS 350			s in Music	
MUS 351		pendent S c History		
MUS 383	Fren	ch Song		
MUS 387		nan Song		
MUS 408			iterature of	
MUS 400		Wind Ban o Literati		
MUS 420 MUS 424		ory of Op		
MUS 433			and Music	
MUS 453			od in Music	
MUS 454			od in Musi	
MUS 455			iod in Mus	-
MUS 456	Mod	em Perio	d in Music	

Music Business

Harry.Jacobson@fredonia.edu

For description of this interdisciplinary program, students should see page 56.

MUSICAL THEATRE

Department of Theatre and Dance Office: 212 Rockefeller Arts Center (71 6) 673-3596 Musical.Theatre@fredonia.edu E-mail: James Ivey, Chairperson

School of Music Office: 1004 Mason Hall (71 6) 673-3151 E-mail:Musical.Theatre@fredonia.edu Peter J. Schoenbach, Director

The Department of Theatre and Dance and School of Music jointly offer study leading to the Bachelor of Fine Arts in Musical Theatre degree. The program is limited to those students who demonstrate excellence in acting, dance and singing and who are firmly committed to professional careers in musical theatre performance.

The Musical Theatre degree is accredited by the National Association of the Schools of Music and the National Association of Schools of Theatre.

Admission to the Bachelor of Fine Arts in Musical Theatre Program Candidates must be accepted academically by the Office of Admissions prior to auditioning. Students must audition during the year prior to entering Fredonia at designated audition dates. The auditions consist of acting, dance and singing. Audition information and application forms are available from either the Department of Theatre and Dance, the School of Music, or on the Theatre and Dance website at www.fredonia.edu.

Transfer students should audition for the Musical Theatre degree the semester before transferring. The B.F.A. requires four years in the degree program for completion.

Additional Requirements:

In addition to the specific and individual courses, periodic reviews of achievement will be conducted for all candidates with the purpose of determining advancement or retention. The Musical Theatre program requires a vocal and acting jury at the conclusion of each semester. A screening Vocal/Acting/Dance jury is conducted at the conclusion of the fourth semester to determine continuance in the program. A public senior recital is presented in the fourth year. The recital must include performance in acting, dancing and singing, and must be 40 minutes in length.

	n academic probation will		MU
	nitted to perform in public		MU
performanc	es.		336
Students m	ust select a specific track		MU
	ance or Music) upon		MU 436
entering the			*Ca
•			B.F
	eatre majors are required		
	heatre Practice obligation		De
	ts) every semester, which	1	Dar
	al extensions of the		TH
	Theatre Practice credits		102
	nt toward the total numbe		TH
	equired in the B.F.A. majo	r.	тні
	eatre majors must y complete a minimum of		
	vel credit hours.		TH
Degree Re	quirements:		TH
	ck: 89 credit hours		202
THEA 101-	Theatre Practice*	2	TH
102			THE
THEA 121	Intro. to Technical Theatre	3	232
THEA 131	Acting Studio:	3	THE
	Improvisation	-	302
THEA 132	Acting Studio: Character Study	3	THE
THEA 140	Stage Dialects	3	тне
THEA 201-	Theatre Practice*	2	тн
202		_	402
THEA 220	Makeup	3	THE
THEA 231-	Acting Studio: Scene	6	
232	Study I & II		DAI
THEA 242-	Acting Studio: Introduction	6	
243	to Voice and Movement I		DAI DAI
THEA 301-	and II Theatre Practice*	2	DAI
302	Theatre Fractice	2	DAI
THEA 331	Acting Studio: Styles	3	DAI
THEA 333	Acting Studio: Audition	3	DAI
	Techniques	-	DAI
THEA 353	History of Musical Theatre	З	DAI
THEA 401-	Theatre Practice*	2	223
402			DAI
THEA 432	Acting Studio: Musical	3	DAI
	Theatre Styles	~	DAI
DANC 111	Modern Technique I	2	364
DANC 121	Beginning Tap Dance	2	MU
DANC 131 DANC XXX	Beginning Jazz Dance Elective	2 2	MU
DANC 211	Modern Technique II	2	118 MU
DANC 221	Beginning Ballet	2	102
DANC 321	Dance for Musical Theatre	2	MU
DANC 363	Choreography I	3	126
MUS 100	Recital Seminar	õ	MU
MUS 101-	Music Theory for	4	MU
102	Non-Majors		140
MUS 117-	Piano Class	2	MU
118			MU
MUS 125-	Applied Voice	4	218
126			MU
MUS 131	Applied Musicianship I	1	236 MU
MUS 137- 140	Diction for Singers	2	MU
140 MUS 200	Recital Seminar	0	336
MUS 200 MUS 217-	Piano Class	2	MU
218		-	MU
MUS 235-	Musical Theatre Voice	6	436
236			

MUS 300 MUS 335-	Recital Seminar Musical Theatre Voice	0 6
336 MUS 400	Recital Seminar	0
MUS 435- 436	Musical Theatre Voice	6
	applied to the hours for the e.	
Dearee Re	quirements:	
Dance Trac	k: 89 credit hours	
THEA 101- 102	Theatre Practice*	2
THEA 121 THEA 131	Intro. to Technical Theatre	3 3
ITEA 131	Acting Studio: Improvisation	3
THEA 132	Acting Studio: Character Study	3
THEA 201-	Theatre Practice*	2
202 THEA 220	Makeup	3
THEA 231- 232	Acting Studio: Scene Study I & II	6
THEA 301-	Theatre Practice*	2
302 THEA 333	Acting Studio: Audition Techniques	3
THEA 353	History of Musical Theatre	3
THEA 401- 402	Theatre Practice*	2
THEA 432	Acting Studio: Musical Theatre Styles	3
DANC 110	Dance Productions (4 semesters)	0
DANC 111 DANC 121	Modern Technique I	2
DANC 121 DANC 131	Beginning Tap Dance Beginning Jazz Dance	2 2
DANC 132	Jazz Dance II	2
DANC 122	Tap Dance II	2
DANC 211	Modern Technique II	2
DANC 221	Beginning Ballet	2
DANC 222- 223	Ballet II and III	4
DANC 311	Modern Technique III	2
DANC 321	Dance for Musical Theatre Choreography I and II	3 6
364		Ŭ
MUS 100 MUS 117-	Recital Seminar Piano Class	0 2
118	FIATIO CIASS	2
MUS 101- 102	Music Theory for Non-Majors	4
MUS 125-	Applied Voice	4
126 MUS 131	Applied Musicianship	1
MUS 137-	Diction for Singers	2
140 MUS 200	Recital Seminar	0
MUS 217-	Piano Class	2
218 MUS 235- 236	Musical Theatre Voice	6
MUS 300	Recital Seminar	0
MUS 335- 336	Musical Theatre Voice	6
MUS 400	Recital Seminar	0
MUS 435- 436	Musical Theatre Voice	6

MUS 042	African Drumming Ensemble applied to the hours for the	C
B.F.A. degre		
	quirements:	
	c 89 credit hours	
	Choral Ensembles (four)	C
020 MUS 019-	Lyric Theatre Workshop or	C
020	Practicum (four, at least one must be in Practicum)	Ľ
MUS 100	Recital Seminar	С
MUS 117- 118	Piano Class	2
MUS 121-	Aural Theory I & II	4
122 MUS 123-	Written Theory I & II	4
124 MUS 125-	Applied Voice	4
126 MUS 131-	Musicianship I & II	2
132 MUS 137-	Diction for Singers	2
140 MUS 200	Recital Seminar	c
MUS 217-	Piano Class	2
218	Trano Glabo	-
MUS 221- 222	Aural Theory III & IV	2
MUS 223- 224	Written Theory III & IV	2
MUS 235- 236	Musical Theatre Voice	e
MUS 300	Recital Seminar	C
MUS 317- 318	Piano Class	2
MUS 335- 336	Musical Theatre Voice	6
MUS 400	Recital Seminar	C
MUS 435-	Musical Theatre Voice	6
436 THEA 101-	Theatre Practice*	2
102 THEA 121	later to Trobular Theotre	
THEA 121	Intro. to Technical Theatre Acting Studio:	3
	Improvisation	`
THEA 132	Acting Studio: Character Study	3
THEA 201- 202	Theatre Practice*	2
THEA 220	Makeup	3
THEA 231-	Acting Studio: Scene	6
232	Study I & II	
THEA 333	Acting Studio: Audition Techniques	3
THEA 342- 343	Acting Studio: Stage Voice	е
THEA 353	History of Musical Theatre	З
DANC 111	Modern Technique I	2
DANC 121	Beginning Tap Dance	2
DANC 211	Modern Technique II	2
DANC 105	Folk Dance	1
DANC 321	Dance for Musical Theatre	2
DANC XXX	Elective	2
*Connot ha	applied to the hours for the	
B.F.A. degre		

55

THEATRE

MUSICAL

State University of New York at Fredonia 56

MUSIC BUSINESS Office: 1145 Mason Hall (716) 673-3248 Music.Business@fredonia.edu È-mail Harry P. Jacobson, Coordinator

The Music Business curriculum serves students interested in a wide range of educational objectives and vocational fields through an interdisciplinary program emphasizing a balance of music, business, and relative elective subjects. Although no audition is required, students in Music Business should have a performance medium and background in music sufficient for success in the core curriculum.

Students might consider majoring in programs such as Communication, Music, or Business Administration with carefully selected electives as alternatives to the Music Business curriculum.

This is an interdisciplinary major program; for specific degree requirements unique to Interdisciplinary Studies, refer to page 39.

The Music Business curriculum requires a minimum of 61 hours of interdisciplinary course work in two groups, a core curriculum and an area of specialization. Developing this specialization in an internship for credit is highly recommended as well.

Group I:		Hrs.
MUS 019-	Ensemble (four	0
020 MUS 104	semesters) Applied Music Class (two to four semesters)	2-4
MUS 264	Topics in Music History or	3
MUS 115	Music Appreciation	3
MUS 117- 118, 217-218	Piano Class, Elementary and Intermediate	
MUS 117- 118	or Piano Class, Elementary	4
MUS 237	Comp. Seminar	
MUS 121- 122	Aural Theory I & II	4
MUS 123- 124	Written Theory I & II	4
MUS 131- 132	Applied Musicianship	
electives in J	or lazz or Music History	2-3
MUS 380 ECON 200	The Music Business Statistics (or any social	3 3
LCON 200	science statistics course)	5
ECON 201 - 202	Principles of Macro/Microeconomics	6
ACCT 201	Financial Accounting	3

ACCT	202	Managerial Accounting	3
ACCT	311	Business Law I	3
BUAD	161	Information Technology Lite racy	3
BUAD	315	Principles of Business Finance	3
BUAD	321	Management and Organizational Behavior	3
BUAD	325	Principles of Marketing	3
		Total:	52-55

Group II: Concentration Students in Music Business must complete a minimum of 9 credit hours from one of the following concentrations:

Communication	ns/Public Relations	
ART 259	Graphic Design I*	3
COMM 102	Mass Media and Society	3
BUAD 2351		3
COMM 235	Communication	
	Introduction to Print and	3
	Broadcast Journalism	
MUS 476	Audio and Desktop	3
	Multimedia	
Merchandising/	/Promoting	
AADM 400	Arts Administration	3
	Practicum	
BUAD 340	Marketing Research	3
BUAD 342	Consumer Behavior**	3
BUAD 445	Integrated Marketing	3
	Communications	
BUAD 446	Sales Management	3
*Prerequisite:	ART 155 Two-dimensional	
Design or per	rmission of instructor	
	BUAD 325 Principles of	
Marketing		

PHILOSOPHY

Office: 2111 Fenton Hall (71 6) 673-3495 E-mail: Philosophy.Department@fredonia.edu Raymond Angelo Belliotti, Chairperson Philosophy is the study of the most basic questions one can ask about reality, human existence, knowledge, value, and meaning. It develops the skills of careful inquiry and logical thinking which are the hallmarks of successful people in all walks of life. The philosophy department offers a major, a minor, and a series of courses designed to complement student majors in other fields, as well as courses of general interest to all students. Numerous philosophy courses are designed to complement student majors in other fields including business,

economics, computer science, art, film, music, theatre, criminal justice, legal studies, and the natural and social sciences. The philosophy department has advisement material available for students who wish to pursue an interest in philosophy in conjunction with these majors and minors.

Graduates with a degree in Philosophy typically go on to careers in areas such as law, business, public service, teaching and creative writing. The Fredonia Philosophical Society is a student initiated club organized for the purpose of holding extra-curricular discussions of a wide range of philosophical topics. The Fredonia Philosophical Society and the philosophy department co-sponsor external speakers of general interest. All meetings are open to the entire campus and the public. Requirements for the Bachelor of Arts Degree in Philosophy Thirty credit hours in philosophy, at least 18 hours of which are in courses numbered 300 or above. 1. Students are required to take a logic course: PHIL 116 Intro. to Deductive Logic 3 PHIL 301 Intermediate Deductive Logic 2. and a history of philosophy course: PHIL 222 The Greek Way or PHIL 224 Medieval Thought 3 or PHIL 226 The Age of Reason and Its Legacy or PHIL 432 The Age of Analysis A Model Program would include: Philosophical Inquiry PHIL 115 3 PHIL 218 Intro. to Ethics 3 or PHIL 265 Social and Political Thought PHIL 345 The Meaning of Life 3 PHIL 441 Philosophy of Language and Semantics PHIL 430 Philosophy of Mind ٥r PHIL 351 Metaphysics: Reality and 3 Existence or PHIL 353 Theory of Knowledge Plus related philosophy courses 12 30 Seniors are strongly urged to take a seminar: PHIL 446-Selected Problems in Philosophy 449 or PHIL 460-Major Philosophers 469 Students should consult the department for current offerings in the above areas. All

waivers of requirements must be approved by the chairperson.

PHYSICS 57

Requirements for the Minor in Philosophy

Eighteen credit hours in philosophy with at least, 9 credit hours in courses numbered 300 or above, as advised.

The philosophy department participates in the Cooperative Engineering and Women's Studies programs. Refer to descriptions of these programs on pages 27 and 76, respectively.

PhilosophyDepartmentalHonorsPhilosophydepartmenthonorswillbeearnedbythosegraduatingmajorswhofulfillthefollowing:(1)anoverallGPA of atleast3.3;(2)aGPA inphilosophycoursesofatleast3.50;(3)completionofatleasttwo400-levelcourseswithgradesof"A-"orhigher.

Philosophy department high honors will be earned by those graduating majors who fulfill the following: (1) an overall GPA of at least 3.3; (2) a GPA in philosophy courses of at least 3.70; (3) completion of at least two 400-level courses with grades of "A; (4) completion of a 3-credit, independent study thesis, PHIL 485, with a grade of "A-" or higher.

PHYSICS

Office: 121 Houghton Hall (716) 673-3301 E-mail: Physics. Department@fredonia.edu Michael Grady, Chairperson

The discipline of physics is basic among the sciences and focuses on the study of natural phenomena. In the process, the student is provided with a broad-based liberal education. The Department of Physics offers a major with several different concentrations including pre-law and pre-med in addition to more traditional programs, a minor, a major through the 3-2 program. Cooperative Engineering an initial certification to teach physics in secondary school, interdisciplinary majors in Geophysics and Mathematics-Physics (with the Geosciences and Mathematics/ Science Computer departments, respectively), a major in Industrial Management, and courses to complement majors in other areas.

Student Honors and Awards

Student honors and awards presented by the Department of Physics include the Hack Arroe Memorial Scholarship Award, the John J. Connelly Physics Scholarship Incentive Award, the John J. Connelly Physics Peer Recognition Award, and the Physics Department Scholarship Award. Students should contact the Department of Physics chairperson for additional details on these awards. Specific awards for Cooperative Engineering students are also available (see page 28).

To meet the requirements for a Bachelor of Science in Physics, students must complete the core courses listed below as well as one of the tracks I-VI. To receive a Bachelor of Science in Physics Adolescence Education, students must complete the core courses and Track VII.

Physics Core:	Hrs	5 .
PHYS 230- University PI	nysics I&II 1	0
and PHYS	232-233 (Labs)	
PHYS 234 Modern Phy	/sics	4
PHYS 330 Thermodyna	amics	3
PHYS 400 Undergradua	ate Seminar	1
PHYS 425 Mathematica	I Physics I	3
PHYS 431 Intro. to Qu	antum	3
Mechanics		
	2	4
and supporting math cou	rses:	
MATH 122- University C	alculus I, II & 1	2
123-223 III	,	
MATH 224 Differential	Equations	3
	. 1	5
MATH 224 Differential	•	-

Track I - Theoretical Emphasis:

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PHYS 331Theoretical MechanicsPHYS 333Electricity and MagnetismPHYS 426Mathematical Physics IIPlus 6 additional credit hours ofphysics from 321-479, 490
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Plus 15 additional credit hours of science, mathematics, computer science, engineering, or education, including CSIT 106 or 121. Recommended courses include MATH 231 and CHEM 115-116 (W/125-126).

Track II - Experimental Emphasis

PHYS 333 Electricity and Magnet	etism 3
PHYS 426 Mathematical Physics	s II 3
PHYS 340- Optics wAab	4
341	
Experimental Physics Project	1
(independent study or tutorial)	
Plus 4 additional credit hours of	4
physics from 321-479,490	
	15

Plus 15 additional credit hours of science, mathematics, computer science, engineering, or education, including CSIT 106 or 121.CHEM 115-116 (w/125-126) is strongly recommended. STAT 250 or 350 and MATH 231 are recommended.

Track III - Computational Emphasis PHYS 331 Theoretical Mechanics 3 PHYS 333 Electricity and Magnetism З PHYS 426 Mathematical Physics II 3 Computational Physics Project 1 (independent study or tutorial) Plus 4 additional credit hours of Δ physics from 321-479.490 14 Plus the following courses: MATH 231 Linear Algebra 4 Numerical Analysis MATH 325 3 **CSIT 106** C++ Programming or CSIT 3-4 121 Computer Science I CSIT 221 4 Computer Science II 14-15 STAT 350 is recommended. Track IV -Physics with Cooperative Engineering PHYS 321 Engineering Mechanics I 4 PHYS 426 Mathematical Physics II 3 Theoretical Mechanics PHYS 331 3 PHYS 333 Electricity and Magnetism PHYS 323 Circuit Analysis I o Digital Logic w/lab PHYS 325/ 3-4 327

13-14 Plus 15 additional credit hours of science. mathematics, computer science, engineering, or education, including CSIT 106 or 121 and at least one additional course from PHYS 322 through 328 and 340/341 as advised. Students interested in electrical engineering should take PHYS 323 and 324 while students interested in non-electrical engineering should take PHYS 322. CHEM 115-116 (w/125-126) is strongly recommended and required by most engineering schools. Note: affiliated engineering institutions (page 27) may have additional requirements for courses and/or arades.

٥r

Flectronics

w/lab

326/328

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12

23

Track V - Physics with Pre-law

This track is excellent preparation for the expanding field of patent and intellectual property law, which requires substantial technical and mathematical knowledge in order to sit for the required licensing exam.

PHYS 340- (Optics w/hab	4
Plus 9 addition	nal credit hours of	9
physics from		13
Plus the follow	wing courses:	
STAT 250	Statistics	3
or 350		
POLI 276	Law and Society	3
	Introduction to Law	
		3
	or	5
	Legal Environment of	
	Business	
PHIL 106	Critical Thinking	
	or	3
PHIL 116	Deductive Logic	
	Intro, to Ethics	
		3
	or	Ũ
PHIL 310	Business Ethics	
		15
POLI 370 Cor	nstitutional Law and CHEM	
	25-126) are recommended.	
	pre College Curriculum	
in running CC		

Track VI - Physics with Premed/Biophysics

ECON 201 or 202 and PSY 129.

Physics majors are highly sought by medical schools, because mathematical and problem-solving abilities stressed in physics are more than ever needed in today's medical fields, Due to their relative rarity, physics majors stand out in the applicant pool. Sufficient time is allotted to take the biology and chemistry courses required by most medical schools and needed to prepare for the MCAT exam. This program may also be followed by students preparing for graduate school in biophysics or related fields.

requirements, students are advised to take

PHYS 340- 341	Optics w/lab
	or
PHYS 325- 327	Electronics w/lab
CHEM 215- 216 w/225-226	Organic Chemistry w/labs

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CHEM 115- 116 w/	owing courses: General Chemistry labs
w/125-126	
BIOL 144- 145	Animal Biology and Evolution w/lab
BIOL 241 - 242	Cell Biology w/lab
BIOL 335	Genetics
BIOL 336	Mammalian Physiology w/lab

In fulfilling College Core Curriculum requirements, students are advised to take an English course in addition to ENGL 100. and also PSY 129. If time permits, BIOL 333 Biochemistry and BIOL 338 Microbiology are also recommended. Track VII -Physics Adolescence (Secondary) Education PHYS 331 Theoretical Mechanics PHYS 333 Electricity and Magnetism PHYS 340-Optics w/lab

341		
	ional credit hours of 311, 321-479, 490	6
		13
Plus the follo	owing courses:	
CHEM 115-	General Chemistry	8
116 and	(w/labs)	
125-126	. ,	
CSIT 106 or	C++ Programming	3-4
121	6 6	
EDU 105/	Intro. To Contemporary	3
106	Education	
EDU 224	Adolescent Development	3
	and Child Abuse Workshop	Ũ
EDU 2501	Intro. To Exceptional Child	3
251		Ũ
EDU 276	Found. of Literacy and	3
200 210	Technology	0
EDU 305/	Cultural and Linguistic	3
313	Diversity in the Classroom	5
EDU 349	Educational Psychology	3
EDU 419	Secondary Methods	3
HLTH 300	Education in	1
	Drugs/Alcohol/Tobacco	
EDU 430	Student Teaching in the	15
	Secondary School	
	48	3-49

The procedure to be followed for admission to the professional sequence of courses is described on page 25. Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing Regents score (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral.

Note: Tracks I-VI will result in a Bachelor of 8 Science degree in Physics. Track VII a Bachelor of Science degree in Physics Adolescence Education. A 2.0 GPA in the 4 set of all physics courses used to satisfy the major plus the four required math 4 courses is required for graduation. Physics Adolescence Education must satisfy 3 additional grade and portfolio requirements 4 for graduation. Interested students should contact the chair of the physics department for current requirements.

Students interested in this joint major should contact the chairperson of the department of Physics or Geosciences. Core Program (23 to 24 credit hours in geosciences: 19 to 21 credit hours in physics; 26 credit hours in related disciplines). GEO 165 Geology I 3 General Geology GEO 169 1 Laboratory GEO 215 Minerals and Rocks 4 GEO 335 Geophysics 4 GEO 370 Structural Geology 4 GEO 459 Seminar in Geosciences 1 or PHYS 400 Undergraduate Seminar 3 Field Geology GEO 461 GEO XXX 4 Geology elective University Physics I & II PHYS 230-10 and PHYS 232-233 (Labs) 231 One course (3-4 hours) from: PHYS 321 Engineering Mechanics I 4 or PHYS 330 Thermodynamics 4 or PHYS 331 Theoretical Mechanics 3 ٥r PHYS 333 Electricity and Magnetism 3 Electives from PHYS 321 PHYS XXX 6 through PHYS 479 MATH 122-University Calculus 12

Requirements for the Bachelor of

in

Degree

Science

3

4

Geophysics

123-223 1, 11 & 111 MATH 224 **Differential Equations** 3 CSIT XXX Any course (preferably 3 CSIT 104 Introduction to Microcomputer Software) General Chemistry | & || CHEM 115-8 116 and CHEM 125-126 (Labs) GEO 330 Geomorphology is strongly

recommended.

Requirements for the Bachelor of Science Degree in Mathematics-Physics

Core Program (32 to 33 credit hou mathematics/computer science; 2	
credit hours in physics; 9 credit h	ours
in supporting courses). CSIT 106 C/C++ Programming	
Or	3-4
CSIT 121 Computer Science I	
Plus 29 hours in mathematics includin	ig:
MATH 122- University Calculus	1 2
123-223 I, II & III	
MATH 210 Discrete Mathematics	4
MATH 224 Differential Equations	3
MATH 231 Linear Algebra	4
Plus two courses at the 300 level or	6
higher: MATH 323 and MATH 420, or	
MATH 323 and PHYS 425, or PHYS	
425 and PHYS 426.	
	32.33

	iversity Physics I & II d PHYS 232-233 (Labs)	10
PHYS 234 Mo	dern Physics	4
PHYS 431 Int	ro. to Quantum	3
Me	echanics	
One course (3 d	credit hours) from:	3
PHYS 330 1	hermodynamics	
PHYS 331 T	heoretical Mechanics	
PHYS 333 EI	ectricity and Magnetism	
Plus 9 additiona	I credit hours from	9
PHYS 321 through	ugh 479, 490	
		29
Diversion and the last	and the second south and the second second second	

Plus 9 credit hours of supporting courses as advised

Note: Minimum cumulative GPA of 2.0 required in above courses for graduation.

Requirements for the Minor in Physics

A minimum of 23 credit hours in physics, including PHYS 230, 231, 232, 233, and 234 and 9 additional credit hours in physics courses numbered 321 through 479, 490 as advised by a physics department faculty member and approved by the department. Additionally, 15 credit hours in mathematics - MATH 122, 123, 223 and 224 are required.

Note: Minimum cumulative GPA of 2.0 required in above courses for graduation.

The Department of Physics participates in the Cooperative Engineering program (see page 27) and administers the interdisciplinary degree program in Industrial Management (see page 38).

POLITICAL SCIENCE

Office: E366 Thompson Hall (716) 673-3207 E-mail: Political.Science@fredonia.edu Jon Kraus, Chairperson

Political science is a liberal arts discipline designed to prepare students as informed citizens and leaders in contemporary society. As a major in Political Science students have a choice of three program options, selection to be made by the conclusion of the first semester, junior year:

Government and Politics Public Law and Policy Political Economy

The program in *Government and Politics (Bachelor of Arts degree)* provides a broad treatment of politics in the modern world. Students electing this option select courses from the six substantive fields of political science (American Political Institutions, Comparative Politics, International Politics, Political Economy, Political Theory and Public Policy/Law).

The program in Public Law and Policy (Bachelor of Arts degree) is a more specialized curriculum emphasizing the analysis of public policy and its implementation in administrative bodies and courts. The focus of the program in Public Law and Policy is twofold: first, the study of the principles and problems central to administration in the governmental sector; second, the study and evaluation of selected governmental policies. Students electing this program will take an internship under supervision of the Department of Political Science.

The program in *Political Economy* (*Bachelor of Arts degree*) is an interdisciplinary curriculum combining the study of politics and economics. Students electing this program explore the relationship between political institutions and economics. Courses focusing upon domestic as well as international topics are available.

Students must see a faculty advisor or the department chairperson to discuss a choice of program and the careers open within the major.. Regardless of the program chosen, the members of the department are dedicated to sharing with students the excitement and challenge of politics in today's world.

Fredonia graduates hold responsible positions in businesses and corporations as well as in federal, state, and local governments. Following completion of college, some of our students continue their studies in graduate or law school. The latter become attorneys in the public and private sectors. The department has regular advisory meetings on careers for its majors and sponsors a variety of internships. Each year the department selects students to spend a semester in Washington, D.C. Selectees may be either majors or non-majors, but must be juniors or seniors at the time they go to Washington. Fifteen credit hours are granted for participation in the program.

Similar in structure to the Washington Semester Program but with residence in Albany, the Albany Semester Program provides an internship with a state agency or the New York State Legislature. It earns 15 credit hours.

The Department of Political Science also offers a number of internships in

local government and local law-related agencies.

Awards

The department is a member of *Pi Sigma Alpha*, the national Political Science Honor Society. Outstanding undergraduates majoring in Political Science are admitted to membership.

The Department of Political Science gives at least three scholarships to entering freshmen, good for two years, based on merit: the Political Science Alumni Scholarship, the Political Science Department Faculty Scholarship and, a J.R. Soukup Freshmen Award.

The Department of Political Science annually gives the Erna G. and J. Murdoch Dawley Award to the outstanding graduating senior in Political Science. This endowed award is given at the conclusion of the spring term.

A J.R. Soukup *Pi Sigma Alpha* Award is given annually to the outstanding junior who not only demonstrates scholarship but is pursuing studies and/or a career in some form of private or public community service. This will be awarded in the spring term.

The department awards the John R. Quatroche Jr. Award to a Political Science student who demonstrates an outstanding record of involvement in extracurricular affairs, campus service and leadership.

The department provides advice to students interested in law school and law-related careers. It maintains an up-to-date collection of law school catalogs which are available in the Erna G. and J. Murdoch Dawley Reading Room (E369 Thompson Hall). The department's pre-law advisors provide assistance in evaluating the results of the Law School Admission Test (LSAT).

Students interested in majoring or minoring in Legal Studies (Pre-Law) should consult page 43. The Legal Studies program is administered through the Department of Political Science.

Political Science majors can belong to the student Political Science Association, which organizes a variety of activities. These include trips to Washington, D.C., career days, election year debates, voter registration projects, parties, and others. Political Science majors may also participate in the Mock Trial program and competitions and in the annual simulation of European Union policy deliberations, in which many U.S. and European colleges and universities participate.

Political Science majors are encouraged to satisfy College Core Curriculum distribution requirements with courses in history and economics where possible. They are also advised to consider these departments in their selection of electives.

Students wishing to teach political science in the secondary schools may obtain provisional certification by completing the Social Studies Adolescence Education program (see page 36). Students in all education programs are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam. or (4) completion of three years of high school language with a passing Regents score (passing = 65). The College Core Curriculum foreign language requirement differs from the certification requirement and must be satisfied for degree conferral. The procedure to be followed for admission to the professional sequence of courses is described on page 25. For updated information on the department, its programs and faculty, consult the department web site at: http//www.fredonia.edu/department/poliscil

 Requirements
 for
 the
 Bachelor
 of

 Arts
 Degree
 in
 Political
 Science

 36-45
 credit
 hours

1. Students majoring in Political Science must take the following courses (21 credit hours):

A. Introducto	ry courses (9 credit	
hours):		
POLI 120	American Politics	3
POLI 121	American Public Policy	3
POLI 150	U.S. and World Affairs	3
B. Methods	courses (6 credit hours):	
POLI 200	Statistics	3
POLI 210	Methods	3

All five introductory courses must be taken before enrollment in more than two 300 level courses.

C: Upper division American Institutions (6 credit hours): Students must take two courses from the three choices below: POLI 321 Political Parties and Interest Groups

3

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or
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- POLI 323
 Elections in America

 POLI 324
 President and Congress
 3

 POLI 370
 American Constitutional 3
 3

 Law (students in the Public Law and Policy track should take this as one of the three)
 3
- In addition to the above courses, majors in Political Science select one of the following tracks in the major:

1. Government and Politics

A. Seven or more 300 level courses (21 hours) in at least four fields, divided accordingly:

Three (3) courses in one field; Two (2) courses in a second field; One (1) course in a third field; One (1) course in a fourth field.

The following additional conditions apply: The two required 300 level American Institution courses in C. above count toward the seven; at least two (2) 300 level courses must be taken in either Comparative or International Politics; or at least one (1) 300 level course from Comparative and one (1) 300 level course from International Politics.

B. Courses are offered in six fields a listed below:	as
American Political institutions:	
POLI 311 Fundamentals of Public Administration	3
POLI 321 Political Parties and Interest Groups	3
POLI 322 New York Government	3
POLI 323 Elections in America	3
POLI 324 President and Congress	3
POLI 325 Public Opinion and Participation	3
POLI 326 Media and Politics	3
POLI 328 African American Politics	3
POLI 329 Topics in American Politics	3
Public Policy and Law:	
POLI 370 American Constitutional Law	3
POLI 371 Civil Rights and Liberties	3
POLI 379 Topics in Public Law	3
POLI 380 Policy Evaluation	3
POLI 381 Urban Politics and Planning	3
POLI 382 Social Welfare Systems	3
POLI 383 Courts and Social Policy	3
POLI 387 Environmental Policy	3
POLI 389 Topics in Public Policy	3
Comparative Politics:	
POLI 330 Western European Politics	3
POLI 331 Canadian Politics	3
POLI 332 Russian Politics	3
POLI 334 African Politics	3
POLI 335 Germany and Europe	3
POLI 341 Political Economy of Development	3
POLI 344 Comparative Public Policy	3

POLI 345 POLI 346	Film and Politics East Asian Political Economy: Japan, China and Korea	3 3
POLI 349	Topics in Comparative Politics	3
International POLI 348 POLI 352 POLI 354	Politics: The European Union World Political Geography Middle East in World Affairs	3 3 3
POLI 355	International Political	3
POLI 356 POLI 359	Economy U.S. Foreign Policy Topics in International Politics	3 3
Political Ed POLI 334 POLI 341 POLI 344 POLI 346	conomy: African Politics Political Economy of Development Comparative Public Policy East Asian Political	3 3 3 3
POLI 354	Economy Middle East in World	3
POLI 355	Affairs International Political	3
POLI 382	Economy Social Welfare Policy	3
Political Tr POLI 360 POLI 361 POLI 363 POLI 365 POLI 369	neory: Classical Political Theory Modern Political Theory Game Theory American Political Thought Topics in Political Theory	3 3 3 3 3
II. Public	Law and Policy	
A. Introduc hours)	tory Law Course (3 credit	
Either POLI 277 Introduc	276 Law and Society or POLI tion to Law	
one course total of 3 cl student took	ed Law Course (at least from the following for a redit hours; it is assumed a POLI 370 as part of the or requirement):	a
POLI 370	American Constitutional	3
POLI 371 POLI 383 POLI 389	Law Civil Rights and Liberties Courts and Social Policy Topics in Public Law	3 3 3
	ed American Public Policy least two courses from t a total of 6 credit hours):	he
POLI 363 POLI 380 POLI 381	Game Theory Policy Evaluation Urban Politics and Planning	3 3 3
POLI 382 POLI 387 POLI 389	Social Welfare Policy Environmental Policy Topics in American Public Policy	3 3 3

D. Advanced International/ Comparative Public Policy Courses (at

least one course from the following for a total of 3 credit hours):

POLI 341	Political Economy of Development	3
POLI 344	Comparative Public Policy	3
POLI 348	The European Union	3
POLI 352	World Political Geography	3
POLI 355	International Political Economy	3
POLI 356	U.S. Foreign Policy	3
POLI 359	Topics in Foreign and/or International Policy	3

E. Approved Public Service Internship is required except in unusual circumstances (3 credit hours).

Note: The Public Law and Policy program requires 39 credit hours, 3 more hours than what is required in the Government and Politics program.

III. Political Economy

A. Introductory economics courses (6 credit hours)

ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3

B. Core Advanced Political Science courses in Political Economy (four courses from the following for a total of 12 credit hours):

3

3

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3

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3

POLI 334 POLI 341	African Politics Political Economy of
POLI 344 POLI 346	Development Comparative Public Policy East Asian Political Economy: Japan, China and Korea
POLI 352 POLI 354	World Political Geography Middle East in World
POLI 355	Affairs International Political Economy
POLI 382	Social Welfare Policy
	ed economics courses (6 from the following):
ECON 320	International Trade and
ECON 320 ECON 335 ECON 345	Finance Economic Development Comparative Economic
ECON 335	Finance Economic Development Comparative Economic Systems Labor and Industrial
ECON 335 ECON 345	Finance Economic Development Comparative Economic Systems Labor and Industrial Relations Environmental and Natural
ECON 335 ECON 345 ECON 355	Finance Economic Development Comparative Economic Systems Labor and Industrial Relations

Note: The Political Economy progra requires 45 credit hours.

Requirements for the Minor in Political Science

At least 21 credit hours in political science, including 12 credit hours of 300 level courses. Students who wish to be officially certified as a Political Science minor should plan a program with a departmental advisor. They should see an advisor at least once each semester thereafter. As a minor in Political Science, students may select either a wide cross section of courses from the various fields within the discipline or a group of courses focusing on one of the following specializations:

 Public
 Law
 and
 Policy

 Political
 Economy

 American
 Politics

 International
 Politics

 Comparative
 Politics

 Political
 Theory

For a listing of courses in each minor, students should see an advisor or the department chairperson.

Geographic Information Systems This program is sponsored jointly by the departments of Political Science and Geosciences. Interested persons should refer to page 32 for a description of the concentration.

Certificate in International Political Economy

A certificate program in International Political Economy is available. The program is open only to Business Administration and Economics majors. The certificate is awarded by the political science department following successful completion of the following:

1. POLI 150 U.S. and World Affairs 2. Nine credit hours from among the following: 3

3

3

3

3

3

3

POLI 334	African Politics
POLI 341	Political Economy of
	Development
POLI 344	Public Policies in
	Advanced Industrial
	Democracies
POLI 346	East Asian Political
	Economy: Japan, China
	and Korea
POLI 354	Middle East in World
	Affairs
POLI 355	International Political
'	Economy

Special Programs

Internships: No more than 3 credit hours of internship credit may count toward the Political Science major or minor. The department participates in various Interdisciplinary Studies Majors and Minors such as Legal Studies, and International Studies.

The Department of Political Science also participates in the Cooperative Engineering program. Refer to the description of this program on page 27.

PRE-MEDICINE AND

ALLIED AREAS

Office: 203 Jewett Hall (716) 673-3282 E-mail: Pre-Medicine.Program@fredonia.edu Wayne Yunghans, Coordinator

Fredonia graduates have enjoyed considerable success in gaining entry to medical and dental school. The success rate of our recent applicants to health professional programs is about 60 to 75 percent. The Biomedical Professions Council closely advises and assists each pre-medical student and prepares a committee letter on his/her behalf. The complete credentials file is assembled by the biology department and submitted in a timely manner on behalf of each applicant.

While no medical schools stipulate a particular major program of undergraduate study, they do require that students have minimum preparation in a number of areas including biology, chemistry, English. and physics. Most of our students find the Fredonia Biology major meets all the requirements for American medical schools and choose it as the most appropriate undergraduate pre-med program. The American Association of Medical Colleges advises that students may major in any area, but their own (AAMC) admissions data show that the majority of successful applicants to American medical schools have majored in the biological sciences. Students who choose to major in an area outside of biology should register with the council as freshmen to ensure appropriate advice and assistance (register at the Biology Office in Jewett Hall).

Any student who is seriously considering a medical or dental career should seek summer employment/ internship opportunities in medicine early in their undergraduate experience. The book, Medical School Admissions Requirements (AAMC. Washington. D.C.) is essential reading for any undergraduate who is seriously considering medical school.

Candidates to dentistry. veterinary. and podiatric medicine should also avail themselves of the advising services of the Biomedical Professions Council.

Students interested in accelerated (3/4) combined degree programs leading to professional degrees in optometry or dentistry should contact the college Admissions Office for details.

PSYCHOLOGY

Office: W357 Thompson Hall (716) 673-3129 E-mail: Psychology.Depattment@fredonia.edu Jack Croxton, Chairperson

The psychology department has several objectives:

To provide the student with a basic knowledge of a broad range of psychological concepts and theories, and an understanding of the methods used by psychologists in the study of human behavior; to contribute to the building of an integrated liberal education, designed to equip the student for postgraduate employment or further specialized education, and to demonstrate the relevance of psychological analysis to current social problems and provide students with the knowledge to better understand themselves and others. A liberal arts education with a major in psychology is good preparation for a wide variety of jobs including human services, sales, and management. Some jobs in psychology and related mental health are available at the bachelor's degree level; others may require an advanced degree. Many of our majors continue in graduate school in fields of study including school psychology, social work, counselor education, cognitive psychology, counseling psychology, and law.

To meet all of these objectives the department offers courses spanning the entire field of psychology. Internships and independent study opportunities are also available. It recognizes superior student performance with the Psychology Merit Award and Donald John Lehr Endowment, and it supports the Psychology Club and a local chapter of Psi Chi, the national honor society for psychology. Interested persons should see the department chairperson for additional information.

Requirements for the Bachelor of Arts Degree in Psychology

L. Courses in Psychology

I. Courses	III Esychology	
		Hrs.
PSY 130 PSY 200 PSY 210	Introduction to Psychology Psychology Laboratory Statistics Research Methods urses are to be completed	1 3 4
One course fr Psychophysio PSY 342 PSY 351		3
One course fr PSY 244 PSY 344 PSY 364	rom the Cognitive Area: Cognitive Psychology Psychology of Language Cognitive Development	3
One course fr PSY 245 PSY 246 PSY 365	rom the Social Area: Social Psychology Personality Social Development	3
One course fr Clinical/Course PSY 356 PSY 379 PSY 447		3
One Theoreti PSY 429	cal Thinking course: History and Systems of Psychology	3
PSY 430 PSY 439 PSY 445 PSY 454	Theories of Psychology Senior Honors Seminar Seminar in Social Psychology Theories of Memory	
	: One course of a	3

developmental focus. PSY 364, PSY 365 or PSY 379 may count here as well as in the groupings above. PSY 349 (Child Psychology) also meets this requirement. Students choosing to take PSY 364, PSY 365 or PSY 379 must take an additional psychology elective in order to fulfill the requirement that they have 35 hours of psychology courses.

Psychology electives

35

6

- II. A minimum of 12 hours in a field other than psychology, chosen with advisement to complement the major, of which at least 6 hours must be at the upper level.
- III. At least one course in mathematics (Le., the MATH code).
- IV. Of the total hours counting for graduation, a minimum of 30 hours must be at the upper level and 75 hours must be outside of psychology.

V. A minimum of 2.00 cumulative quality point average in all psychology courses.

Requirements for the Minor in Psychology

General Minor:

A minimum of 18 credit hours in psychology, with at least 9 hours at the upper level. One course must come from the psychophysiology area or the cognitive area (PSY 244, 342, 344, 351, or 364) and one course must come from the social area or the clinical/counseling area (PSY 245. 246, 356, 365, 379, or 447).

Industrial-Organizational Psychology Minor:

A minimum of 21 credit hours, ٦ distributed as follows:

Core Cours	ses – 12 credit hours	
PSY 129	Introduction to Psychology	3
PSY 200	Statistics	3
PSY 317	Tests and Measurements	3
PSY 347	Industrial-Organizational Psychology	3
Two courses	from the following - 6 credit	
hours		
PSY 227	Applied Psychology	
PSY 245	Social Psychology	
PSY 355	Group Dynamics	
PSY 373	Human Factors	
PSY 447	Introduction to Counseling	
One course f	rom the following - 3 credit	
hours		
SOC 322	Work and Society	
SOC 325	Complex Organizations	

Requirements for Transfer Credit

For a transfer course to be counted toward the minimum hours required for a major or a minor, the course must be evaluated as equivalent to a course taught in the Department of Psychology.

For a major, a limit of 12 transfer credits may be counted towards the 35 required, i.e., a minimum of 23 credit hours must be taken in the department at SUNY Fredonia.

For a minor, a minimum of 9 hours must be taken in the department at SUNY Fredonia.

The psychology department participates in the Cooperative Engineering program (see page 27).

RECOMBINANT GENE TECHNOLOGY/ MOLECULAR GENETICS

(also see Biology) Office: 203 Jewett Hall (716) 673-3282 E-mail: RecombinantGene.Technology@fredonia.edu **Wayne N. Yunghans**, Interim Chairperson Department of Biology

Virtually all areas of the life sciences are being affected by the application of Recombinant Gene Technology/ Molecular Genetics in solving biological problems. A strong background in molecular genetics will allow students to address problems in agriculture, environmental medicine. science, industry, forensics and basic biology. Indeed, Recombinant Gene Technology/Molecular Genetics is playing a central role in virtually all aspects of modern biological research.

SUNY Fredonia's unique program in Recombinant Gene Technology/ Molecular Genetics, the first of its type in New York State, provides students with the necessary background, skills and training to enter these exciting areas of molecular biology and biotechnology. Students enrolled in the program will gain experience in DNA cloning, nucleic acid hybridization, gel transfers, forensic DNA analysis, bioinformatics, and DNA sequencing, which form the basis of the Human Genome project and of other molecular genetic research. The B.S. degree in Recombinant Gene Technology/Molecular Genetics also combines an educational experience in the liberal arts with broad coverage of fundamental aspects of the biological sciences. Graduates in Technology/ Recombinant Gene Molecular Genetics are well prepared for graduate work in molecular biology, genetic counseling or forensic science as well as entrance to a medical program, or employment as a research technician.

The first two years of the program consist of a core of courses taken by most students interested in the biological sciences. In addition, a senior-level capstone course in Recombinant Gene Technology/ Molecular Genetics provides the student with a sequence of experiments in a research project setting that includes a comprehensive selection of the techniques employed in genetic engineering. Requirements for the Bachelor of Science Degree in Recombinant Gene Technology/Molecular Genetics

BIOL 141 - 146	Plant Diversity and Ecosystem Biology & Lab	4
BIOL 144- 145	Animal Biology and Evolution & Lab	4
BIOL 241- 242	Introductory Cell Biology & Lab	4
BIOL 333- 334	Biochemistry & Lab	4
BIOL 335	Genetics	3
BIOL 338	Microbiology	3
BIOL 340	Cell & Subcellular Biology	3
BIOL 431	Senior Seminar	1
BIOL 435	Developmental Biology	3
BIOL 460	Recombinant Gene Technology	3
	onal hours of biology he 300-400 level.	9
ciccuves at t		
electives at t		41
CHEM 115- 115	General Chemistry I & II and CHEM 125-126 (Labs)	41 8
CHEM 115-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II and CHEM 225-226 (Labs)	
CHEM 115- 115 CHEM 215-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II	8
CHEM 115- 115 CHEM 215- 216 PHYS 121-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II and CHEM 225-226 (Labs) College Physics I & II and	8
CHEM 115- 115 CHEM 215- 216 PHYS 121-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II and CHEM 225-226 (Labs) College Physics I & II and PHYS 123-124 (Labs)	8
CHEM 115- 115 CHEM 215- 216 PHYS 121- 122 PHYS 230-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II and CHEM 225-226 (Labs) College Physics I & II and PHYS 123-124 (Labs) or University Physics I & II	8
CHEM 115- 115 CHEM 215- 216 PHYS 121- 122 PHYS 230- 231 MATH 120- 121	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry I & II and CHEM 225-226 (Labs) College Physics I & II and PHYS 123-124 (Labs) or University Physics I & II and PHYS 232-233 (Labs) Survey of Calculus I and II or	8 8 8
CHEM 115- 115 CHEM 215- 216 PHYS 121- 122 PHYS 230- 231 MATH 120-	General Chemistry I & II and CHEM 125-126 (Labs) Organic Chemistry 1 & II and CHEM 225-226 (Labs) College Physics I & II and PHYS 123-124 (Labs) or University Physics I & II and PHYS 232-233 (Labs) Survey of Calculus I and II	8 8 8

Chemistry and mathematics courses should be completed by the end of the sophomore year, physics courses by the end of the junior year.

Course descriptions for the major are listed on pages 110 to 114.

The Recombinant Gene Technology/ Molecular Genetics major is strongly advised to plan on at least one year of Undergraduate Research (BIOL 440-441) in the area of molecular biology.

Requirements for Transfer Credit: The degree offered by the Department of Biology requires students to complete 41 credit hours of biology core and elective courses chosen with advisement. Students are expected to complete at least half of the biology courses at Fredonia. Additional credit hours transferred may be used as general electives toward graduation. As a rule, the department will not accept as equivalent for upper level courses, credit earned at two-year colleges.

SOCIAL WORK

(see also Sociology/Anthropology/Social Work and Criminal Justice) Office: W377 Thompson Hall (716) 673-3570 E-mail: Social.Work@fredonia.edu Mary B. Carney, Director

The Bachelor of Science in Social Work is one of several major degree programs offered by the Department of Sociology, Anthropology, Social Work, and Criminal Justice. The program is accredited by the Council on Social Work Education, the profession's educational accreditation organization. The goals of the SUNY Fredonia Social Work program are:

- to prepare generalist social workers who integrate knowledge, values, and skills for competent entry-level professional practice andlor graduate education.
 - to prepare generalist social workers educated to maintain and improve the social functioning of individuals, families, groups, organizations and communities by helping people solve problems, accomplish tasks, prevent and alleviate distress, and create and use resources.
 - to prepare generalist social workers who understand and actively participate in their social environment, in particular through planning, formulation and implementation of social policies, services, resources, and programs, to help people meet basic human needs and to improve the quality of life for all.
 - to prepare generalist social workers who use themselves, their knowledge, their capabilities problem-solving and other social systems to advocate for populations-at-risk and to promote socially and economically just communities and society.
 - to prepare generalist social workers who understand their obligations as practitionerresearchers to develop and test knowledge and skills to strengthen the profession's purpose of enhancing human well-being and alleviating poverty and oppression.

Mission Statement

The SUNY Fredonia Bachelor of Science degree in Social Work program community believes that social work is an academic discipline and a professional field of study through which students learn the knowledge, skills, professional behavior, and professional mindset needed to help people meet human needs and solve complex human problems. It considers social workers to be professionals who have important obligations in providing service to others. People share their trust and their lives with social workers, creating a responsibility for social workers as professionals to honor that trust. With this in mind, the Social Work program strives to be a trusted partner in the missions of the Department of Sociology, Anthropology, Social Work, and Criminal Justice; the college; the academic community-at-large; and the social community-at-large. The Social Work program community believes that through committed, quality teaching-learning activities such as classroom instruction, advisement of students, reciprocal learning relationships with the local community-at-large, and student involvement, it will prepare competent entry-level professional generalist social workers who will serve others with integrity and honor, either locally or in communities throughout the state. The SUNY Fredonia Social Work program community believes that its teaching-learning, research, and service activities will have a meaningful influence on the well-being of each student, the college, the community-at-large and especially, the people who are and will be served by its graduates.

Program Overview

All program activities are designed to meet its mission and goals. The curriculum is designed to provide the professional foundation which gives students specific social work theory, knowledge and skills. It is built upon a liberal arts base and provides individualized opportunities for personal and professional growth. Students work with their advisors to choose elective courses to develop their specific interests. The Social Work Club plans student-directed activities that increase opportunities to explore the nature of the profession. Through their academic experiences, students become more well-rounded, responsible individuals who possess a spirit of inquiry, critical thinking and helping skills, and have the ability to use the self appropriately in relationships with others.

Social work academic offerings and program activities are continually assessed to help keep the program vibrant and relevant. Student achievement results from each required social work course, portfolio learning, and performance in the Field Practicum are compiled and used to analyze the curriculum. In addition, various kinds of surveys are conducted with graduating seniors, alumni, and community practitioners to help understand the program's performance. Each of these assessment strategies measures some or all of the program's following objectives:

Graduates of the SUNY Fredonia Social Work program will

1. apply critical thinking skills within the context of professional social work practice.

2. practice within the values and ethics of the social work profession and with an understanding of and respect for the positive value of diversity.

3. demonstrate the professional use of self.

4. understand the forms and mechanisms of oppression and discrimination and the strategies of change that advance social and economic justice.

5. understand the history of the social work profession and its current structures and issues.

6. apply the knowledge and skills of generalist social work to practice with systems of all sizes.

7. apply knowledge of bio-psychopsycho-social variables that affect individual development and behavior, and use theoretical frameworks to understand the interactions among individuals and social systems (i.e. families, groups, organizations, and communities).

8. analyze the impact of social policies on client systems, workers, and agencies.

9. evaluate research studies and apply findings to practice, and, under supervision, to evaluate their own practice interventions and those of other relevant systems. 10. use communication skills differentially with a variety of client populations, colleagues, and members of the community.

11. use supervision appropriate to generalist practice.

12. function within the structure of organizations and service delivery systems, and under supervision, seek necessary organizational change. (CSWE Curriculum Policy Statements, B5.7.1-B5.7.12) and,

13. will utilize the knowledge base as successful preparation for graduate work andlor continued education for competence.

Advancement into the Professional Methods Sequence

Students who indicate their desire to major in Social Work and who meet the college acceptance requirements are designated official majors at the time of their acceptance. However, in the second semester of the sophomore year, all majors who wish to continue in the program and take upper level social work methods courses must successfully complete the Advancement process. An application with supporting documents must be filed by March 15. Supporting documents include a written response to questions posed on the application, transcripts, and three letters of recommendation. Students must successfully complete an interview process with social work faculty. Transcripts must document that students have met the following advancement requirements:

1. A 2.0 average for the following prerequisite courses:

SOC 116	Introduction to Sociology
PSY 129	Introduction to Psychology
BIOL 110	Human Biology
SOC 200	Statistics for Sociologists
	(or any other introduction
	to statistics course)
	Prerequisite: SOC 116
SOC 218	Introduction to Social Work Prerequisite: SOC 116
SOC 272	Exploring
	Community-Based Social
	Work
	Prerequisite: SOC 218

- 2. A cumulative grade point average of 2.5 or higher, and
- A grade of "C" or better in SOC 218 Introduction to Social Work and SOC 272 Exploring Community-Based Social Work

The application materials with complete instructions can be obtained by contacting the department and/or the Program Director.

Students will not be allowed into the Methods Sequence if they have not successfully completed this process. Once accepted into the advanced course work, students are identified as having "Advanced Status" and must follow the required sequence of courses. This sequence is based upon the developmental design of the curriculum. All foundation area practice methods courses build upon the knowledge of the course that precedes it. Because of this, students who anticipate any need for part-time study or who wish to study abroad should talk with their advisors as soon as possible to plan their progress through the curriculum. Students must also achieve a minimum grade of "C in their required social work courses to continue in sequence.

Transfer Students

The Social Work program welcomes transfer students. The curriculum was designed to facilitate a successful transition from other institutions. Incoming freshmen and sophomore students are given intensive advising to prepare for advancement and to promote success in all academic pursuits. Incoming juniors who transfer with an A.A./A.S. degree or who have 60 credit hours are also given intensive advisement but they must meet all the advancement criteria prior to transfer. When applying for advancement into the junior year course work, these students must file their application with supporting documents and they must:

- 1. Be formally accepted into SUNY Fredonia for the fall semester.
- Document the completion of 60 credit hours (or submit their plan to complete at least 60 hours before they start the fall semester.)
- 3. Establish equivalency for courses transferring as Introduction to Social Work (Introduction to Human Services), Exploring Community-Based Social Work (Human Services Internship), and Human Biology.

To establish equivalency, students must submit a syllabus for the course in question to the Social Work Program Director who must determine that the purpose, content, and scope of the course is the same or similar enough to the SUNY Fredonia course that it can stand in the place of the SUNY Fredonia course. The Program Director may contact the college/university to gather more information to make a determination. If approved, a Transfer Credit Approval form must be filed with the SUNY Fredonia Registrar.

Social work courses transferred from a CSWE Accredited program will be approved for credit but may not be judged equivalent to the SUNY Fredonia social work courses. This occurs because of differences in curriculum and course sequencing among programs. Transfer students from an accredited program will need to meet with the Program Director to determine equivalency. No equivalency will be granted for the Field Practicum. Students earning a B.S. degree in Social Work from SUNY Fredonia must complete their 500 practicum hours through the SUNY Fredonia program.

Note: No academic credit for life or work experience will be given as an equivalent for any required social work course, Introduction to Social Work, or Exploring Community-Based Social Work.

Field Practicum

In the senior year, students must complete a 500 hour professionally supervised placement in a social service agency. Conceived as one experience spread over two semesters, the student must complete a minimum of 250 hours of activities during each of the fall and spring semesters. Students begin the application process for their Field Practicum placement in the fall semester of the junior year. Students must have completed all prerequisite courses prior to entering their field work. They must also have maintained a 2.0 cumulative G.P.A. and a 2.5 average in all the required social work courses. Field practicum policies and procedures can be found in the Field Manual available to the students during the application-to-the-field process in the spring semester.

Program Policies

The social work profession has been a leader in the cause of fighting prejudice, discrimination, and oppression against all people in society. Admission and advancement in the program is based upon the published criteria. Race, color, religion, creed, gender, ethnic or national origin, disability, age, political orientation, or sexual orientation play no role in the program decisions. Social work is also a professional field with expectations of professional behavior. Students who meet the published criteria but who have evidenced a pattern of unprofessional, unsuitable behavior may be denied advancement and/or dismissed from the program. Students may also be dismissed from the program for academic reasons. Students must earn a grade of "C" or better in their required social work courses to continue in the major. More specific expectations and policies are detailed in the *Handbook for Social Work Majors* available to each major during the fall orientation period.

Requirements for the Bachelor of Science Degree in Social Work

Degree candidates in Social Work must (a) complete the College Core Curriculum; (b) complete prerequisite courses; (c) successfully complete the Advancement process in the second semester of their sophomore year; (d) complete required social work courses (45 hours); (e) maintain and complete a portfolio, (f) complete enough general elective hours and/or a minor to earn 120 credit hours, and (9) consistently demonstrate professional behavior.

Prerequisite	Courses:	
SOC 116	Introduction to Sociology	3
PSY 129	Introduction to Psychology	3
BIOL 110	Human Biology	3
Statistics:	BUAD 200, EDUC 200,	3
Statistics.	POLI 200, PSY 200,	5
	SOC 200, STAT 200	
SOC 218	Introduction to Social Work	3
SOC 272	Exploring Community-	3
000212	Based Social Work	0
		18
Required Sc	cial Work Courses:	
SOCW 249	Social Welfare Institutions	3
POLI 382	Social Welfare Policy	3
SOC 300	Research Methods	3
SOCW 325	Social Work Practice	3
	Methods I	
SOCW 340	Human Behavior in the	3
	Social Environment I	
SOCW 341	Human Behavior in the	3
	Social Environment II	
SOCW 370	Social Work Practice	3
	Methods II	_
SOCW 390	Social Work Practice	3
00000 400	Methods III	~
SOCW 400	Policy and Social Work Practice	3
SOCW 480	Field Practicum I	2
SOCW 480 SOCW 485	Field Practicum I with	3 3
SUC W 485	Seminar	3
SOCW 490	Field Practicum II	3
SOCW 495	Field Seminar II with	3
	Seminar	
Six credit ho	urs of Approved Social	6
Work Electi	ves	45
		40

SOCIOLOGY/ ANTHROPOLOGY/ SOCIAL WORK/ CRIMINAL JUSTICE

Office: W363 Thompson Hall (716) 673-3205 E-mail: Sociology.Anthropology@fredonia.edu Alan G. LaFlamme, Chairperson

The Department of Sociology/Anthropology/Social WorWCriminal Justice offers majors in Sociology, Sociology with an Anthropology concentration, Social Work and Criminal Justice. Minors in Sociology, Anthropology, and Criminal Justice are offered as well.

Sociology

Sociology provides valuable insights into the human experience and assists in the understanding of human behavior. Sociologists are interested in understanding how people live and interact, in learning how human groups of all kinds (families, sports teams, religious groups, crowds, large bureaucratic organizations, etc.) operate in a wide variety of situations, and in assessing and evaluating how societies work. Sociology explores assumptions about people, their groups, and their societies. It carefully analyzes problem areas and evaluates possible solutions. The Sociology degree program at SUNY Fredonia has special strengths in medical studies and criminal justice.

Requirements for the Bachelor of Arts Degree in Sociology: 39 credit hours

3

3

3

3

3

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3

Required Courses: 21 hours Introductory Anthropology ANTH 115 Introductory Sociology SOC 116 SOC 200 Statistics for Sociologists (or equivalent) SOC 202 Social Analysis SOC 300 Research Methods SOC 308 Foundations of Sociological Theory SOC 309 Contemporary Sociological Theory Elective Courses in sociology: 18 credit hours

Requirements for the Minor in Sociology

Eighteen credit hours in sociology including SOC 116 (required). The remaining 15 credit hours are free electives and may be taken from any of the department's sociology offerings. At least 9 credit hours must be at the 300 level or above.

Anthropology

Anthropology investigates human origins and diversity. Anthropologists attempt to understand human existence, both past and present, from worldwide perspective. Their а discipline has been called the most humanistic of the sciences and the most scientific of the humanities. Anthropology is an integrating academic discipline, consisting of four major divisions: physical anthropology, linguistics, and cultural archaeology, anthropology. Majors in Sociology with Concentration in Anthropology а develop skills in evaluating and conducting research through courses in theory, methods, statistics, and many specific content areas. Those skills and that knowledge can be applied in a wide variety of occupations and professions. Majors have the opportunity to prepare for graduate education in sociology, anthropology, law, social work, and related fields as well as careers in various social and human service areas. The department offers interested and qualified students a chance to work for credit on research projects currently being conducted by its faculty. In addition, students are to undertake faculty-aided encouraged projects in areas of their own interest.

RequirementsfortheBachelorofArtsDegreeinSociologywith aConcentrationinAnthropology:42credithours

Required Cou	urses: 27 credit hours	
ANTH 115	Introductory Anthropology	3
ANTH 210	Physical Anthropology	3
ANTH 211	Archaeology	3
ANTH 219	Cultural Anthropology	3
SOC 116	Introductory Sociology	3
SOC 200	Statistics for Sociologists	3
	(or equivalent)	
SOC 202	Social Analysis	3
SOC 300	Research Methods	3
SOC 308	Foundations of	3
	Sociological Theory	
Elective Cour	ses: 9 additional credit hours	S
in anthropology plus 6 credit hours in		
related fields	as advised.	

Requirements for an Anthropology Minor

Eighteen hours in Anthropology. ANTH 115 Introductory Anthropology (required), plus 15 additional credit hours in anthropology. At least 9 credit hours must be at the 300 or 400 level.

Social Work

For information on this program, interested persons should see page 63.

Student Honors and Awards

Sociology majors and minors who maintain a minimum 3.0 grade point average in the discipline and overall will be eligible for induction into Alpha Kappa Delta, the International Sociology Honor Society.

SOUND RECORDING TECHNOLOGY

(see also Music) Office: 1004 Mason Hall (716) 673-3151 E-mail: SoundRecording.Technology@fredonia.edu Peter J. Schoenbach, Director, School of Music Bernd Gottinger, Sound Recording Technology Coordinator

Technology Sound Recording The program is designed to provide undergraduate students with academic preparation professional and necessary for successful careers in music. sound recording. and related professions, and in technical, artistic and management positions.

MUS 001 MUS 100 MUS 120	Ilum: 35 credit hours Music Convocation Recital Seminar Concert Attendance	1 0 0
MUS 019-020	Ensembles	0
MUS 105-106	Applied Music	4
MUS 113	Voice Class	1
MUS	Piano Class	2
117-118		
MUS	Aural Theory I & II	4
121-122		
MUS	Written Theory I & II	4
123-124		
MUS	Applied Musicianship	2
131-132	1&11	
MUS	Aural Theory III & IV	4
221-222		
MUS	Written Theory III & IV	4
223-224		
MUS 263	Music History in Western Civilization	3
MUS 264	Topics in Music History	3
MUS XXX	Music History Elective	3
	- Totoli	25

	cording Te	
		on to core):
SRT 100	Introduction	
		Technology
SRT	Recording	Practicum
200-201		
SRT	Recording	Practicum
250-251		
SRT	Recording	Practicum
300-301		
SRT	Technology	& Practices of
350-351	the Sound	Industry
SRT	Senior Pro	oject/Seminar
450-451		
CSIT 105	Visual BAS	IC
	Programmin	g
MATH	University C	alculus I & II
122-123		
PHYS	College Phy	vsics I & II
121-122		
	or	
PHYS	University I	Physics I & II
230-231		
PHYS	College Ph	iysics
123-124	Lab I & II	
	or	
PHYS	University	Physics
232-233	Lab I & II	
PHYS 311	Acoustics	
PHYS 318	Basic Elec	tronics

Internship: Interns hips wit hin the recording industry are strongly encouraged. Up to 15 credit hours of credit may be earned.

Electives: by advisement from Sound Recording Technology Coordinator.

(Spanish, see Modern Languages and Literatures, page 47.)

SPEECH PATHOLOGY AND AUDIOLOGY

Office: W123 Thompson Hall (716) 673-3202 E-mail: SpeechPathology.Audiology@fredonia.edu Bridget Russell, Chairperson

Certification Requirement Changes

The American Speech-Language-Hearing Association, along with the Council on Academic Accreditation in Speech-Language Pathology and Audiology, are changing the requirements for the Certificate of Clinical Competence in Speech-Language Pathology. The new requirements will go into effect on January 1,2005. This means that any student who graduates after December 2004, and/or who applies for certification after January 1, 2005, must fulfill the new requirements.

The Department of Speech Pathology and Audiology seeks to combine professional preparation with a solid grounding in general and liberal education. To this end, the department offers two degree options; the Bachelor of Science in Education (B.S. Ed.), leading to provisional certification as a Teacher of the Speech and Hearing Handicapped, and the Bachelor of Arts in Communication Disorders and Sciences (B.A.), a pre-professional non-certification option.

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Individuals qualified as Speech-Language Pathologists are in demand in a variety of educational and therapeutic settings. Those qualified at the bachelor's level readily obtain employment in school or pre-school settings. Upon completion of a master's degree, the graduate may elect to continue working in school settings or may seek employment in hospitals, medical practice groups, nursing homes, and rehabilitation agencies or in private practice.

At SUNY Fredonia, the Bachelor of Science in Education of the Speech and Hearing Handicapped (housed in the Henry C. Youngerman Center for Communication Disorders) includes clinical practice and student teaching in schools. Recipients of the B.S. Ed. are provisionally certified to work in the schools of New York State.

The Bachelor of Arts degree option includes all the academic courses for the B.S.Ed., but in place of the practicum and student teaching courses, a two to three course sequence in two different academic departments is required. Choices and options are facilitated through advisement. Junior transfers and second baccalaureate degree students are advised into the B.A. program to facilitate timely completion of academic and degree requirements.

Upon completion of either degree option, students may elect to continue graduate studies in the same field. This major also provides a basis or impetus for specializations in education of the deaf, special education, linguistics, counseling and a variety of other professions.

The graduate programs at Fredonia in Speech-Pathology and Audiology are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association and are licensure qualified by the State Education Department.

Scholarships

The following scholarships are awarded by the Department of Speech Pathology and Audiology: the Esau A. and Susan S. Sam Scholarship, the Schaffer Family Scholarship, the Rebecca Snyder Memorial Scholarship, the Lt. Gen. Louis E. Woods Scholarship, the Henry C. Youngerman Scholarship, and the Constantine Barker Endowment.

Requirements for all Academic Majors

Students during their fifth semester, or the semester in which 75 credit hours will be earned, must normally meet the following requirements before being permitted to take further courses in the Department of Speech Pathology and Audiology.

- A minimum overall GPA of 2.75 (or decision based on the chairperson's discretion).
- A minimum overall GPA of 2.75 in all speech pathology and audiology courses completed.
- 3. Additional requirements as specified elsewhere.

Requirements for the Bachelor of Science in Education, Speech and Hearing Handicapped, and Provisional Certification

			Hrs.
SPA	250	Speech and Language Development	3
SPA	316	Speech Science	3
SPA	318	The Speech and Hearing Mechanism	3
SPA	321	Speech Pathology	3
SPA	322	Hearing Problems and Tests	3
SPA	323	Phonological and Language Disorders	3
SPA	350	Phonetics	3
SPA	327	Organization and Administration of Speech and Hearing Programs	2
SPA	328	Clinical Methods, Speech and Hearing	3
SPA	329	Clinical Practice co-requisite SPA 331	3
SPA	331	Lecture and Staffing Clinical Practice co-requisite SPA 329	1
SPA	418	Stuttering and Voice Problems	3
SPA	419	Aural Habilitation and Rehabilitation	3
SPA	432	Student Teaching of the Speech and Hearing Handicapped	10
			40

Any 200 level statistics course from SUNY Fredonia or approved transfer course from another institution

Required for Provisional Certification:

EDU 215	Education in American Society or equivalent	3
EDU 225	Developmental Psychology	3
EDU 349	Educational Psychology	3 9

The New York State Education Department requires a Child Abuse Seminar as well as a Violence Prevention Seminar for all students being recommended for teaching certification; Childhood Education, Early Childhood Education. Adolescence Education. and Speech Pathology/Audiology. These students must successfully complete the New York State Teacher Examination Program. Students are required to demonstrate competence in a foreign language. This requirement may be satisfied in any one of the following four ways: (1) completion of course work at the 116 level at Fredonia, or (2) transferring of two successful college semesters, or (3) scoring at the 50th percentile or higher on the CLEP exam, or (4) completion of three years of high school language with a passing score on the Regent's examination (passing = 65). The College Core Curriculum (CCC) foreign language requirement differs from the certification requirements and must be satisfied for degree conferral.

Requirements for the Bachelor of Arts in Communication Disorders Sciences and

		Hrs.
SPA 250	Speech and Language Development	3
SPA 316	Speech Science	3
SPA 318	The Speech and Hearing Mechanism	3
SPA 321	Speech Pathology	3
SPA 322	Hearing Problems and Tests	3
SPA 323	Phonological and Language Disorders	3
SPA 327	Organization and Administration of Speech and Hearing Programs	2
SPA 328	Clinical Methods, Speech and Hearing	3
SPA 350	Phonetics	3
SPA 418	Stuttering and Voice Problems	3
SPA 419	Aural Habilitation and Rehabilitation	3
	e sequence in two demic departments by	12

advisement.



3

3

Any 200 level statistics course from SUNY Fredonia or approved transfer course from another institution

Recommended for Future Certification:

EDU 215	Education in American Society	3
EDU 225	Developmental Psychology	3
EDU 349	Education Psychology	3
SPA 206	Fundamental of Acoustics	3
		12

Requirements for a Minor in Speech Pathology and Audiology

Eighteen cre	edit hours including:
SPA 150	Introduction to
	Communicative Disorders
SPA 250	Speech and Language
	Development
SPA 350	Phonetics
Plus 9 hours	s selected from:
SPA 206	Fundamentals in Acoustics
SPA 318	The Speech and Hearing
	Mechanism
SPA321	Speech Pathology
SPA 322	Hearing Problems and
	Tests
SPA 323	Phonological and
	Language Disorders
SPA 418	Stuttering and Voice
	Problems
SPA 490	Independent Study

SPORT AND EXERCISE STUDIES

(interdisciplinary minor only) Coordinators:

Dr. Charles Davis, Chairperson

- Health, Wellness and Recreation Office: 123 Dods Hall (716) 673-3101
- E-mail: Charles.Davis@fredonia.edu

Dr. Bruce Klonsky, Professor,

Psychology Department

Office: W339 Thompson Hall (716) 673-3892

E-mail: Bruce.Klonsky@fredonia.edu

The Sport and Exercise Studies interdisciplinary minor has three options. The Athletic Coaching

Certification Track (1 8 credit hours), the Sports Administration and

- Communications Track (23 credit 3 hours) and the Sport and Exercise
- Sciences Track (at least 22 credit 9 hours). Each track will include some required courses, and areas of concentration/specialization where there will be a choice of electives. For each track, the electing of an applied outside experience (i.e., practicum/internship or independent study) will be encouraged.

The Athletic Coaching Track prepares students to meet the New York State established criteria to qualify to coach in elementary and secondary schools and in youth recreation programs. Students can organize 18 credit hours needed for graduation to meet the state mandate for strenuous/contact activities and non-strenuous/ non-contact activities. Core courses

relate to philosophy, principles and organization of athletics in education; health sciences applied to coaching (e.g. First Aid, Psychology of Coaching, and Adult CPR); and techniques of coaching.

The Sports Administration and Communication Track will expose students to (a) the behavioral dimensions of sport; (b) general management and organizational skills and issues; (c) sport-specific management principles, strategies, and issues; (d) marketing, finance, and legal issues; and (e) communication and ethical issues.

The course categories included in this track were strongly influenced by the Sport Management Program Standards established by the National Association for Sport and Physical Education and the North American Society for Sport Management. The track will aid in the preparation and viability of students for jobs and graduate work in sports management, marketing, and public relations.

The Sport and Exercise Sciences Track will expose students to scientific principles and issues related to sport and exercise. The contributions of the behavioral, social and physical sciences (psychology, sociology and physiology) will be emphasized. The core courses for this track include Sport Psychology, the Sociology of Sport, and the Physiology of Exercise and Sport. Students will also be required to choose one course in each of the following concentration areas: (a) physiological bases, (b) group and organizational contexts, (c) developmental and educational issues and principles, and (d) personality, assessment, and counseling issues.

The course categories utilized in this track are strongly influenced by the criteria that the Association for the Advancement of Applied Sport Psychology requires for the certification of doctoral-level professional sport consultants. The track will aid in the preparation of students for graduate work dealing with sport and exercise behavior within their discipline (e.g. psychology, sociology, kinesiology, and exercise science). It will also provide important information about sport and exercise behavior for those planning to be coaches, fitness specialists, physical therapists, and athletic trainers.

A maximum of 12 credit hours may be taken in the Sport and Exercise Sciences track from any one department in fulfilling the requirements of this minor. Athletic Coaching Track (18 credit hours) Required Core Courses: Hrs. HLTH 111 First Aid Skills & 2 Knowledge PHED 210 Phil., Principles, Organ. of 3 Interscholastic Athletics PSY 237 Sport Psychology* 3 PHED 315 Prev. & Care of Ath. 3 Injuries* PHED 321 Coaching Techniques 2 Elective Courses: Select courses totaling 5 credit hours from the following listing: EDU 349 Educational Psychology* 3 HLTH 300 Education In Drugs, 1 Alcohol and Tobacco** **HLTH 302** Stress Management 1 HLTH 303 Fitness & Nutrition 2 PHED 318 Athletic Training Internship 3 PHED 399 Independent Readings 1-3 PHED 499 Independent Study 1-3 Sport Psychology* PSY 237 3 SOC 335 Sociology of Sport* 3 PSY 247 Health Psychology* 3 PHED 400 Internship 1-6 *Prerequisite required **Education majors only

Sports Administration and Communication Track

(21 credit hours)

Required Cor	e Courses:	Hrs.
PHED 210	Phil., Principles, Organ. of	3
	Interscholastic Athletics	
PSY 237	Sport Psychology*	3
SOC 335	Sociology of Sport*	3
Elective Cour	ses: (One course required	of
students)		
BUAD 321	Manag. & Organ. Behav.*	3
PSY 347	Indust./Organ.	3
	Psychology*	
*Prerequisite	required	

Areas of Concentration:

(Select three following tw	e courses from the ro areas)	
Marketing,	Finance and Legal Issu	es
		Hrs.
BUAD 310	Legal Envir. of Business	3
BUAD 330	Human Resource	3
	Manage.*	
BUAD 325	Principles of Marketing*	3
BUAD 340	Marketing Research*	3
PHIL 310	Administrative Ethics	3
*Prerequisite	required	

Communications and Ethical Issues
Hrs.
COMM 200 Electr. Media Writing* 3
COMM 251 Audio Production I 3
COMM 255TV Production I *3COMM 353Comm. Law & Ethics*3
ENGL 270 Intro. to Print Media 3
ENGL 368 Intro. to Public Relations 3
ENGL 370 Report. & News. Writ.' 3
BUAD 480/ Business Internship 3 481
COMM 480 Communication Internship 3
ENGL 468 Public Relations Internship 3
PHED 400 Health & Wellness 1-6 Internship
*Prerequisite required
Sport and Exercise Sciences Track (at least 22 credit hours)
Required Core Courses: Hrs.
PHED 200 Physiology of Exercise & 3 sport
PSY 237 Sport Psychology* 3
SOC 35 Sociology of Sport* 3
Elective Course: (1 course) PSY 247 Health Psychology* 3
PSY 247 Health Psychology* 3 PHED, PSY, Internship 1-6
SOC
Areas of Concentration:
Physiological Bases (1 course)
PHED 315 Prev. & Care of Ath. 3
InjuriesPSY 351Physiological Psychology* 3
Group and Organizational Contexts (1 course):
PSY 355 Group Dynamics* 3
PSY 347 Indust./Organ. 3 Psychology*
SOC 325 Complex Organizations 3
Developmental & Educational Issues (1 course):
EDU 225 Developmental 3 Psychology
EDU 349 Educational Psychology* 3
PSY 364 Cognitive Development* 3
PSY 349 Child Psychology* 3
PSY 365 Social Development* 3
Personality, Assessment & Counseling Issues (1 course):
PSY 317 Tests and Measurements* 3
PSY 246Personality*3PSY 356Abnormal Psychology*3
SOC 310 Deviant Behavior 3
SOC 311 Sociology of Addiction 3
*Prerequisite required
Note: An independent study or
internship in Health and Wellness,
Psychology or Sociology can be substituted for one (1) course in these
aroas of concentration

areas of concentration.

THEATRE AND DANCE

Office: 212 Rockefeller Arts Center (716) 673-3596 E-mail: Theatre.Arts@fredonia.edu JamesIvey, Chairperson

It is the mission of the Department of Theatre and Dance to provide training for professional, community and academic theatres within the framework of the liberal arts education. The theatre and dance programs also serve as a means of acquiring a liberal education.

A liberal education serves to broaden horizons, break down prejudices, and build inquiring, open minds; it is of value regardless of the student's future goals. Theatre and drama, which are ultimately concerned with all aspects of people's experiences, have special relevance to a liberal education. The greater the understanding of human existence by theatre majors in liberal arts, the more experiences they have entered into imaginatively and projected to others from the stage, the more they will be able to order, clarify and understand their own lives and the world in which they live. Of all the disciplines in a liberal arts university, theatre may be the one most clearly related to the pattern of peoples' lives and normal experiences.

The Department of Theatre and Dance offers the Bachelor of Arts and the Bachelor of Fine Arts degrees. The Bachelor of Arts degree is a General Theatre Studies program. The Bachelor of Fine Arts degree program is limited to those students who demonstrate excellence or the potential for excellence in performance and/or production and design. It is designed for those students who enter college with a firm idea of their professional goals.

In conjunction with the School of Music, the department offers study leading to the Bachelor of Fine Arts in Musical Theatre degree. Minors in Theatre and Dance are available as well, allowing the pursuit of a secondary interest in theatre or dance as support for a major area or for personal growth and satisfaction.

Theatre students may participate in the Performing Arts Company (PAC), a student-run theatre group at the college. PAC presents one major production each semester and sponsors workshops and experimental theatre productions. Juniors and seniors who contribute significantly to the theatre program and who attain a grade point average of 3.25 in their major may be eligible for *Alpha Psi Omega*, the national honorary dramatic society. Incoming freshmen may be eligible for the Jack L. Cogdill Scholarship, which is based on talent.

Admission to the Department

Bachelor of Arts - General Theatre Studies

All students who indicate Theatre as their first major preference and are academically accepted by the college are automatically admitted to the Bachelor of Arts General Theatre Studies program.

Bachelor of Fine Arts - Acting

In addition to admittance to the college, students must audition during the year prior to entering Fredonia at one of the designated audition dates or may audition during the first semester of residence. Audition information and application forms are available from the Department of Theatre and Dance office or on the departmental website.

Transfer students should audition for the B.F.A. Acting program during the semester before transferring. The B.F.A. Acting degree requires four years for completion.

Bachelor of Fine Arts - Musical Theatre

For admission and degree requirements see page 54.

Bachelor of Fine Arts - Production Design

In addition to admittance to the college, prospective students must interview with the design faculty prior to acceptance into the program. This may be done during the year prior to attending Fredonia or B.A. General Theatre Studies' students may be admitted during their first year in residence. Students who are accepted into the B.F.A. Production Design program select a specific track of study from the following options: Costume Design, Lighting Design, Technical Production or Scenic Design. Each track of study is outlined below.

Dance

For information on programs and courses in Dance, see pages 72 and 73.

Additional Requirements

Transfer students admitted into B.F.A. degree programs should expect to spend a minimum of three years on the SUNY Fredonia campus.

In addition to the specific and individual courses, periodic reviews of achievement/improvement will be conducted for the B.F.A. Acting and Production Design candidate with the purpose of determining advancement/retention. At the conclusion of the fourth semester, the student is reviewed by the performance or design faculty and a determination made as to permission for continuance in the program. Students with unfavorable evaluations will not be permitted to continue study in the B.F.A. but may continue in the B.A. General Theatre program.

Students in the B.F.A. Acting and Musical Theatre programs must present acting juries at the conclusion of the first year, at the end of each semester in the second year, at the end of the third year, and must perform a senior recital or a leading role in a departmental production during their fourth year. B.F.A. Acting and Musical Theatre majors are required to audition for all Department of Theatre and Dance Walter Gloor Mainstage productions.

B.F.A. Production Design students, prior to graduation, must formally present their portfolios and participate in the senior design exhibit.

All Theatre majors and minors are required to complete Theatre Practice obligations that are practical extensions of the classroom and vary in accordance with the specific programs. The Theatre Practice commitment requires approximately 12 clock hours per week and may, in special cases, require significantly more time. Theatre Practice credit will not count toward the total number of credits required in the B.F.A. Musical Theatre degree program.

All departmental majors must successfully complete a minimum of 30 upper-level credit hours and appropriate supporting courses as determined by faculty advisement.

Students who are on academic probation will not be permitted to perform in public performances nor will major technical crew assignments be permitted.

Transfer students in the B.A. General Theatre Studies degree program must complete at least 60 percent (27 credit hours) of their major at Fredonia.

Degree Bachelor o	Requirements: of Arts	
General 7	heatre Studies	
THEA 101-		Hrs. 2
102 THEA 114	Intro. to Performing Arts	3
THEA 117	Script Analysis	3
THEA 121 THEA 133	Intro. to Tech. Theatre Intro. to Acting	3 3
THEA 201- 202	Theatre Practice	2
THEA 220 THEA 301 -	Makeup Theatre Practice	3 2
302		
THEA 401- 402		2
THEA 441 THEA 451- 452	Directing I History of the Theatre I & II	3 6
THEA 460	Theatre Management	3
THEA XXX	Electives	6 41
Studies prog	the B.A. General Theatre Iram must complete a total o urs outside their major.	f
-	Requirements: f Fine Arts	
	i Tille Alta	
Acting		l
THEA 101-		Hrs. 2
THEA 101- 102	Theatre Practice	rs. 2
102 THEA 121	Theatre Practice Intro. to Tech. Theatre	2 3
102	Theatre Practice Intro. to Tech. Theatre Acting Studio:	2
102 THEA 121	Theatre Practice Intro. to Tech. Theatre	2 3
102 THEA 121 THEA 131 THEA 132 THEA 140	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects	2 3 3 3 3 3
102 THEA 121 THEA 131 THEA 132	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study	2 3 3 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup	2 3 3 3 3 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene	2 3 3 3 3 3 2
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction	2 3 3 3 3 2 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II	2 3 3 3 3 2 3 6
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and	2 3 3 3 3 2 3 6
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles	2 3 3 3 3 2 3 6 6 2 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles Acting Studio: Styles Acting Studio: Stage Voice I & II	2 3 3 3 2 3 6 6 2
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 342-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles Acting Studio: Styles Acting Studio: Stage	2 3 3 3 3 2 3 6 6 2 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 342- 343 THEA 361 - 362 THEA 401-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles Acting Studio: Styles Acting Studio: Stage Voice I & II Acting Studio: Stage	2 3 3 3 3 2 3 6 6 2 3 6
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 201 - 202 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 342- 343 THEA 361 - 362	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles Acting Studio: Stage Voice I & II Acting Studio: Stage Voice I & II Theatre Practice Acting Studio: Stage	2 3 3 3 3 2 3 6 6 2 3 6 6 6
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 361 - 362 THEA 401- 402 THEA 433 THEA 441	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Stage Voice I & II Acting Studio: Stage Voice I & II Theatre Practice Acting Studio: Stage Movement I & II Theatre Practice	2 3 3 3 2 3 6 6 2 3 6 6 2 3 6 6 2 3 3 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 361 - 362 THEA 401- 402 THEA 433 THEA 441 THEA 441 THEA 451-	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Styles Acting Studio: Styles Acting Studio: Stage Voice I & II Acting Studio: Stage Movement I & II Theatre Practice Acting Studio: Stage Movement I & II Theatre Practice	2 3 3 3 2 3 6 6 2 3 6 6 2 3 6 6 2 3
102 THEA 121 THEA 131 THEA 132 THEA 140 THEA 201 - 202 THEA 220 THEA 231- 232 THEA 242- 243 THEA 301 - 302 THEA 331 THEA 361 - 362 THEA 401- 402 THEA 433 THEA 441	Theatre Practice Intro. to Tech. Theatre Acting Studio: Improvisation Acting Studio: Character Study Stage Dialects Theatre Practice Makeup Acting Studio: Scene Study I & II Acting Studio: Introduction to Voice and Movement I & II Theatre Practice Acting Studio: Stage Voice I & II Acting Studio: Stage Voice I & II Theatre Practice Acting Studio: Stage Movement I & II Theatre Practice	2 3 3 3 2 3 6 6 2 3 6 6 2 3 6 6 2 3 3 3

ENGL 412- Shakespeare

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Plus two cou	urses from the following: 4-6
THEA 353 THEA 432	History of Musical Theatre Acting Studio: Musical Theatre Styles
DANC 111	Modern Technique I
DANC 121	Beginning Tap Dance
DANC 131	Beginning Jazz Dance
DANC 211	Modern Technique II
DANC 221	Beginning Ballet
ART 115	Masterpieces of Art to 1400
ART 116	Masterpieces of Art from 1400
HIST 115	Western Civilization (Ancient to 1700)
HIST 116	Western Civilization (1 700 to Present)
MUS 263	Survey of Western Music Topics in Music History
MUS 264	TOPICS IN MUSIC HISTORY
Degree	Requirements:
Bachelor o	f Fine Arts
Production	Design Program esign Track
Core: 41 cre	0
THEA 101- 102	
THEA 121	Introduction to Technical 3 Theatre
THEA 123	Introduction to Technical 3 Production
THEA 133	Introduction to Acting 3
THEA 201 - 202	Theatre Practice 2
202 THEA 222	Stagecraft I 3
THEA 226	Scene Painting I 3
THEA 301-	Theatre Practice 2
302	Description by a singular time
THEA 315 THEA 381	Dramatic Imagination 3 Technical Seminar 3
THEA JOI	(5 credit each of 6 semesters)
THEA 401-	Theatre Practice 2
402 THEA 441	Directing I 3
THEA 441 THEA 451-	History of the Theatre 6
452	
THEA 499	Performance/Production 3 Seminar
-	rses: 12 credit hours
THEA 223	Lighting I 3
THEA 326 THEA 327	Scene Design I3Costume Design I3
THEA 328	Costume Design II 3
	ů,
ART 150	wrses: 30 credit hours Drawing I 3
ART 252	Life Drawing I 3
ART 253	Life Drawing II 3
THEA 220	Makeup 3
THEA 228	Costume Crafts 3
THEA 303- 304-305	Rendering I & II & III 3
THEA 325	History of Fashion 3
THEA 329	Flat Patterning 3
THEA 420	Special Studies - Dyeing 3
THEA 420	Special Studies - Draping 3
	83

Lighting De		
Core: 38 cre		Hrs.
THEA 101- 102	Theatre Practice	2
THEA 121	Introduction to Technical Theatre	3
THEA 123	Introduction to Technical Production	3
THEA 133	Introduction to Acting	3
THEA 201- 202	Theatre Practice	2
THEA 226	Scene Painting I	3
THEA 301- 302	Theatre Practice	2
302 THEA 315	Dramatic Imagination	3
THEA 381	Technical Seminar	3
(5 cr	edit hours each of 6 seme	sters)
THEA 401- 402	Theatre Practice	2
THEA 441	Directing I	3
THEA 451- 452	History of the Theatre I	6
THEA 499	Performance/Production	3
	Seminar	
Required Co	urses: 18 credit hours	
THEA 223	Lighting I	3
THEA 326	Scene Design I	3
THEA 327	Costume Design I	3
THEA 245	Sound for the Theatre I	3 3
THEA 324 THEA 420	Lighting II Special Studies (in	3 3
	Lighting)	
	credit hours from the follow	-
ART 115	History of Art to 1400	3
ART 116	History of Art 1400 to Present	3
ART 340	History of Architecture	3
MUS 263	Music History in the	3
	Western Civ.	
Elective Could following:	rses: 21 credit hours from	the
ART 150	Drawing I	3
THEA 220	Makeup	3
THEA 221	Computer Drawing I	3
THEA 222	Stagecraft I	3
THEA 228	Costume Crafts	3
THEA 303-	Rendering I & II & III	3
304-305		
THEA 420	Special Studies	3
COMM 251	(in another area) Audio Production I	3
THEA 322	Stagecraft II	3
THEA 328	Costume Design II	3
THEA 426	Scene Design II	3
THEA 460	Theatre Management	_ 3
	ů.	83
Technical F		
Core: 47 cre		Hrs.
	Theatre Practice	2
102 THEA 121	Introduction to Technical	3
THEA 123	Theatre Introduction to Technical	3
THEA 133	Production	3
THER 133	Introduction to Acting	ა

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THEA 201-	Theatre Practice	2	THEA 4
202			THEA
THEA 221	Computer Drawing I	3 3	
THEA 222 THEA 223	Stagecraft I Stage Lighting I	3 3	Design
THEA 223	Theatre Practice	2	THEA
302		2	THEA
THEA 315	Dramatic Imagination	3	THEA
THEA 322	Stagecraft II	3	THEA
THEA 381	Technical Seminar	3	THEA
· ·	edit hours each of 6 seme	'	Historie
THEA 401- 402	Theatre Practice	2	ART 1
402 THEA 441	Directing I	3	ART 1
THEA 451	Theatre History I	3	ART 34
THEA 452	Theatre History II	3	
THEA 499	Performance/Production	3	Elective
	Seminar		followin ART 1
Elective Cou	rses: 30 credit hours from	the	THEA
following:			THEA
THEA 220	Makeup	3	THEA
THEA 228	Costume Crafts	3	THEA
THEA 226	Scene Painting I	3	THEA
THEA 303 THEA 304	Rendering Techniques I Rendering Techniques II	1 1	THEA
THEA 304	Rendering Techniques III	1	THEA
THEA 324	Stage Lighting Design	3	THEA THEA
THEA 245	Sound for the Theatre	3	THEA
THEA 420	Special Studies in	6	THEA
	Technical Theatre		
	(2 sections)	0	
THEA 460	Theatre Organization and Management	3	Requir
ART 150	Drawing I	3	Fine
COMM 101	Fundamentals of	3	For in
	Communication		Fine /
COMM 221	Interpersonal	3	cumcu
ACCT 201	Communication Financial Accounting	3	Requir
	-		Theatr
	credit hours from the follow	-	Twenty
ART 115 ART 116	Art History to 1400 Art History 1400 to	3 3	THEA
	Present	5	102 THEA
ART 340	History of Architecture	3	THEA
		83	THEA
			THEA
Scenic Des	ign Track		
Core: 38 cre		Hrs.	THEA
	Theatre Practice	2	THEA 202
102 TUEA 424	Introduction to Technical	2	Two of
THEA 121	Introduction to Technical Theatre	3	THEA
THEA 123	Introduction to Technical	3	THEA
	Production		THEA
THEA 133	Introduction to Acting	3	THEA
THEA 201 -	Theatre Practice	2	
202 THEA 226	Scono Dainting I	3	
THEA 226 THEA 301 -	Scene Painting I Theatre Practice	3 2	
302		2	
THEA 315	Dramatic Imagination	3	
THEA 381	Technical Seminar	3	
· ·	edit hours each of 6 seme	'	
THEA 401- 402	Theatre Practice	2	
402 THEA 441	Directing I	3	
THEA 451	History of Theatre I	3	

THEA 452	History of Theatre II	3
THEA 499	Performance/Production	3
	Seminar	
0	ses: 15 credit hours	
THEA 223	Stage Lighting I	3
THEA 324	Stage Lighting II	3
THEA 326	Scene Design I	3
THEA 327	Costume Design I	3
THEA 426	Scene Design II	3
	-	
Histories: 6		•
ART 115	History of Art to 1400	3
ART 116	History of Art 1400 to	3
	Present	
ART 340	History of Architecture	3
Electives: 2/	a credit hours from the	
following:		
ART 150	Drawing I	3
THEA 221	0	3
	Computer Drawing I	
THEA 222	Stagecraft I	3
THEA 228	Costume Crafts	3
THEA 303	Rendering I	1
THEA 304	Rendering II	1
THEA 305	Rendering II	1
THEA 322	Stagecraft II	3
THEA 420	Special Studies	3
THEA 427	Scene Painting II	3
THEA 460	Theatre Organization and	3
	Management	
	management	83
Requiremen	ts for the Bachelor o	f
	in Musical Theatre	
For informa		

	requirements, see page	54
Requirement Theatre	nts for the Minor in	
Twenty-two	credit hours:	Hrs
THEA 101- 102	Theatre Practice	
THEA 114	Intro. to Performing Arts	
THEA 117	Script Analysis	
THEA 121	Intro. to Tech. Theatre	
THEA 130	Acting for Non-Majors	
	or	
THEA 133	Intro. to Acting	
THEA 201- 202	Theatre Practice	
Two of the	following:	
THEA 325	History of Fashion	
THEA 451	History of Theatre I	
THEA 452	History of Theatre II	;
THEA 460	Theatre Organization &	
	Management	

DANCE

(minor only)					
(minor only)					
Office: 147 Dods Hall					
(71.6) 673-3107					
E-mail: Dance.Program@fredonia.edu Carol A. Prevet, Coordinator					
Carol A. Prevet, Coordinator					
Theatre and television have					
heightened interest in the moving art					
forms. The Dance minor combines					
technique training in movement with					
training in music and rhythm Creativity	,				
training in music and rhythm. Creativity is stressed in two courses in	y				
choreography and students have the					
opportunity to create dances, design					
sets, costumes, and lights for					
concerts. Students are welcome to					
participate in the dance club, Orchesis					
	,				
which sponsors many activities throughout the year, including master					
classes and workshops with professional companies and teachers.					
The Dance minor is especially					
recommended for students in art,					
communication, education, music,					
theatre, and musical theatre.					
theate, and musical theate.					
Requirements for the Minor in					
Dance					
A. 13 credit hours					
	1				
	0				
semesters)	0				
semesters) DANC 111 Modern Technique I					
DANC 111 Modern Technique I	2				
DANC 111 Modern Technique I DANC 211 Modern Technique II					
DANC 111 Modern Technique I DANC 211 Modern Technique II Prerequisite: DANC 111 DANC 311 Modern Technique III	2				
DANC 111 Modern Technique I DANC 211 Modern Technique II Prerequisite: DANC 111	2				
DANC 111 Modern Technique I DANC 211 Modern Technique II Prerequisite: DANC 111 DANC 311 Modern Technique III Prerequisite: DANC 211	2				
DANC 111 Modern Technique I DANC 211 Modern Technique II Prerequisite: DANC 111 DANC 311 Modern Technique III Prerequisite: DANC 211	2 2 2				
DANC 111 Modern Technique I DANC 211 Modern Technique II Prerequisite: DANC 111 DANC 311 Modern Technique III Prerequisite: DANC 211 DANC 363 Choreography I Prerequisite: DANC 211 DANC 364 Choreography II	2 2 2				
DANC 111Modern Technique IDANC 211Modern Technique IIPrerequisite:DANC 111DANC 311Modern Technique IIIPrerequisite:DANC 211DANC 363Choreography IPrerequisite:DANC 211	2 2 2 3				
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DANC 321	Dance for the Musical Theatre Prerequisites: DANC 121, 211	2-3
DANC 341 DANC 461- 462	Selected Topics in Dance Practicum in Dance	1-3
DANC 561- 562	or Practicum in Dance (senior or graduate student - by audition only)	6

VISUAL ARTS AND NEW MEDIA

Office: 216 Rockefeller Arts Center 716-673-3537 E-mail:VisualArtsNewrnedia@Qfredonia.edu Thomas Loughlin, *Chairperson*

Unique opportunities are being developed as the Media Arts program joins the Visual Arts, forming the Department of Visual Arts and New Media. The curriculum and the degree programs are continuing to evolve.

Visual Arts

The Department of Visual Arts provides a balanced, comprehensive undergraduate program in the practice, theory, and history of art. The department offers both majors and elective students an opportunity to experience art as an important and enriching facet of a liberal arts education. Whether the goal is a career or advanced study in the arts, or simply a greater understanding of art and its cultural impact, the curriculum includes a dynamic mix of studios, lectures, and seminars. Content covers traditional methods and materials, emerging technologies, and the ideas inherent in art making and art awareness.

For Visual Arts majors, the department offers multiple opportunities for professional education in studio specialties and art history through various degree options. Students may receive a Bachelor of Arts degree in Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, or Sculpture. Or, students may apply during their junior year for a Bachelor of Fine Arts degree in these same major areas.

Students from other departments may also earn a Visual Arts minor to complement their major field of study. Minors consult with a Visual Arts advisor in choosing either a variety of arts courses or specific area of study. Graduates have successful careers in corporate and public settings as art directors, working artists and designers, teachers, creative freelancers and owners of pottery studios, photo studios and design firms. Others work as photographer's assistants, web designers, gallery directors and curators, and in the special effects industry. Visual Arts students have also continued their education in graduate programs around the country.

Admission and Degree Requirements

Admission to the department requires the submission of an acceptable portfolio for both freshman and transfer students. It is recommended that all prospective students contact the department for additional information concerning portfolios and admission. Prospective students are required to submit slides of their work, or they may schedule an in-person review; all accepted students must have entrance slides in their departmental file. In-person reviews are recommended for transfer students. Transfer students are advised that it may take more than two years at Fredonia to complete B.F.A. requirements, depending on their chosen major. Information on what should be included in the portfolios is available from the Department of Visual Arts and New Media.

Visual Arts students complete the core program and then pursue their chosen major. Students wanting to apply for the B.F.A. degree may do so after completing a minimum of 27 credits in the core program. B.F.A. applicants must have attained at least a 3.0 average in visual arts courses, including art history, with a 2.0 required for courses taken outside the department. Transfer students should note that only course work taken at Fredonia counts towards the required grade points. Courses may be repeated to improve a grade.

All Visual Arts and Media Arts majors participate in the Visiting Artist Program each semester, which provides an opportunity for exposure to a variety of art and design professionals from around the country. In their final semester, majors participate in Senior Seminar, present an exhibition of their work, and complete an exit portfolio of slides to remain on file in the department. Awards and Enrichment

Visual Arts students have departmental as well as campus-wide scholarship possibilities. The Alford Bjurlin Scholarship, the George W. Booth Scholarship, the Marano-Gnirke Scholarship, the Robert W. Marvel Scholarship, the Chautauqua Craft Alliance Award for Excellence in Art and Fredonia Potters Co-op Awards are given to exceptional Visual Arts majors. Additional scholarships are often available through portfolio competitions on a regional or national level.

The studio and classroom experience is further enriched with the student clubs Art Forum, Media Arts Club, and AIGA. Student members of these clubs have visited major art museums and studios in New York, Toronto, Pittsburgh and Cleveland and have attended photography, ceramics, design and new media conferences around the country. Internships are available and encouraged for students who want practical experience in addition to course work in their chosen major. The department, as well as the Office of Internships, will assist students in arranging internships in the United States or abroad.

Requirements for the Bachelor of

Arts/Bachelo	r of	Fine	Arts	
Core Program	n:			
ART 115	Maste	rpieces	s-Art to 1400	3
ART 116			s-Art from Present	3
ART 150	Drawir	ng I		3
ART 151	Drawir	ng II		3
ART 155	2-D D6	esign		3
*ART 252	Life Dr	awing	I	3
ART 255	Introdu			3
'ART 257	Photo			3
ART 207	Functi		orm and	3
*ART 273	Handfo	orming	l Clay	3
'ART 258	Figure	Mode	ling	
	or		-	3
*ART 274	Potter	y on th	e Wheel	
ART 285	Paintir	ng I		3
('B.F.A. Graphic Design majors choose any two of the asterisked courses)				

Bachelor of Arts Degree - 33 credit hours core plus 24 credit hours of Major Requirements plus ART 120 Visiting Artists Program each semester and ART 460 Senior Seminar. Total hours required: 57+

B.A.	Major	Requirements:
Ceram ART 3		Ceramic Form and Function
ART 3 ART 4 ART 4	441	Vessels as Sculpture Directed Studio Ceramics Independent Studio Project
Studio Art H	Electivistory E	ves
Drawin ART 3 ART 3 ART 4 ART ART Studio	350 370 441 495	Drawing III Drawing IV Directed Studio Project Independent Studio Project /es
	istory E	
ART 2 ART 2 ART 2 ART 2 ART 2 ART 2 Studio	260 359 361	Graphic Design I Graphic Design II Graphic Design III Typography I History of Graphic Design ves
ART ART	253 263 380 381 420	Life Drawing II Printmaking I Illustration I Illustration II Illustration III Illustration IV Ilectives
Painti ART ART ART ART ART	286 385 386 495	Painting II Painting III Painting IV Independent Studio Project
Art H	o Electi listory E	
Photo ART	graphy 305	Black and White Technique
	355	
	357 358 441	

3 3 3 3 6 6	Art History Bachelor of Arts in Art History - Total hours required: 36 ART 115 Masterpieces-Art to 1400 ART 116 Masterpieces-Art from 1400 to the Present Art History Courses as Advised Selected Studio Courses Additional courses in Studio or Art History determined in advising.	3 3 24 6
3 3 3 3	Bachelor of Fine Arts Degree - 33 credit hour core (Graphic Design 27 credit hours) plus 36 credit hours of Major Requirements (Graphic Design 42 credit hours) including ART 120	ı
6 6	Visiting Artists Program each semes and ART 460 Senior Seminar. Total hours required: 75	ter
3 3 3 3	B.F.A. Major Requirements:	
3 6 3	Ceramics ART 258 Figure Modeling ART 373 Ceramic Form and Function	3 3
3 3	ART 374Vessels as SculptureART 441Directed Studio CeramicsART 495Independent Studio	3 3 3
3 3 3	Ceramics Art History Electives Art History/Studio Elective	6 15
3 6	Drawing ART 253 Life Drawing II ART 263 Relief Printing	3 3 3
3	ART 285 Painting II ART 350 Drawing III	3
3 3	ART 370 Drawing IV	3
3	ART 441 Directed Studio Drawing ART 495 Independent Studio Drawing	3 3
6 6	Art History/Studio Electives Graphic Design	15
3	ART 259 Graphic Design I ART 260 Graphic Design II	3 3
3	ART 353 History of Graphic Design	3 3
3	ART 359 Graphic Design III ART 360 Graphic Design IV	3
3 6	ART 361 Typography I	3
6	ART 362 Typography II	3 3
	ART 401 Graphic Design V ART 402 Graphic Design VI	3
3	ART 452 Typography III	3
3	ART 453 Design Realities/Professional	3
3	Practices	
3	Art History Electives Studio Electives	3 6
6		Ũ
6	illustration ART 253 Life Drawing II	3
	ART 263 Relief Printing	3
	ART 350 Drawing III ART 353 History of Graphic Design	3 3
	ART 353 History of Graphic Design ART 380 Illustration I	3

ART 381 ART 420 ART 421 ART 441 ART 453 Art History E	Illustration II Illustration III Illustration IV Directed Studio Illustration Design Realities/Professional Practices lectives	3 3 3 3 3 3 3
Studio Electiv		3
Painting ART 253 ART 286 ART 350 ART 385 ART 386 ART 441 ART 495	Life Drawing II Painting II Drawing III Painting III Painting IV Directed Studio Painting Independent Studio Painting	3 3 3 3 3 3 3 3 3
Studio Electi Art History E Art History/St		6 6 3
Photography ART 305	Black and White Technique	3
ART 310 ART 350 ART 355 ART 405 ART 495	Digital Imaging Drawing III Color Photography Photographic Inquiry Independent Studio: Photography	3 3 3 3 3
Art History E Studio Electi	Electives	9 9
Sculpture ART 274 ART 357	Pottery on the Wheel 3-D Methods and Materials	3 3
ART 358 ART 441 ART 495	3-D Expression and Craft Directed Studio Sculpture Independent Studio Sculpture	3 3 3
Studio Electi Art History E Art History/S	ives	12 6 3

VISUAL ARTS AND NEW MEDIA 75

Media Arts

The Media Arts program provides a comprehensive foundation of design skills with an emphasis on interactive design, conceptual thinking, and the ability to create multimedia content using artistic sensibilities. Media Arts majors study an interdisciplinary curriculum emphasizing the concepts, theories, design, aesthetics and skills that underlie the domain of computer graphics and multimedia. To this end Fredonia has equipped computer labs to meet industry standards with state-of-the-art equipment and a range of software programs.

The Bachelor of Arts and Bachelor of Fine Art degree options in Media Arts are designed to combine multimedia computer technology with traditional studies in the fine and performing arts. Media Arts students learn how to create computer-mediated art as well as how to develop and create CD-ROM titles, World Wide Web pages, basic animation, and other interactive media.

Graduates possess a unique set of hybrid skills that provide a critical edge for leadership positions in the competitive and evolving digital marketplace. They enter fields including multimedia advertising and marketing, public relations, arts administration, multimedia design and production, imaging technologies in the visual arts, digital photography, corporate communications, animation, and motion graphics.

Admission and Degree Requirements

Admission to the Media Arts program requires the submission of an acceptable portfolio from both freshmen and transfer applicants. Transfer students must have at least a 3.0 GPA. Prospective students may send 15 to 20 slides andlor CD-ROM of their work, or schedule an in-person review. B.F.A. Media Arts/Sound Production applicants must submit an audio portfolio. Information on what should be included in the portfolios is available from the Department of Visual Arts and New Media.

The Bachelor of Arts (B.A.) degree is a balanced, comprehensive overview of the range of creative and career possibilities in different media, with the added benefit of incorporating an interdisciplinary pedagogy within a traditional liberal arts curriculum. This degree option, more general than the Bachelor of Fine Art (B.F.A.), provides excellent grounding for students

interested in graduate studies or those seeking careers in areas such as advertising and marketing, consumer product companies, creative content production for multimedia. interactive marketing, corporate communication, public relations, and arts administration.

Students in the B.A. program are required to declare a minor officially recognized by the offering department. The minor should be chosen in consultation with a Media Arts faculty member. Through the minor, students can gain experience in fields such as theatre, music, computer science and communications.

The Bachelor of Fine Art (B.F.A.) in Media Arts emphasizes the range of software, tools and theories necessary for the development of the interactive designer and creative artist. The creative process, from inception to presentation, is emphasized. The degree option fosters intellectual and creative curiosity, critical aesthetic thinking, encourages fusion between different artistic disciplines, and extensive use and evaluation of current technologies. Visual design is of great importance, but equal consideration is given to the concept and context. The historical relationship between an extensive range of media, and the impact of interaction on those media, are thoroughly explored. Critical awareness, and the ability for self-evaluation, are encouraged and developed. An understanding of visualization, human-computer interface design, user perception, and their relationships with interactive multimedia are all-important outcomes of the program.

Degree Requirements

	<i>Arts Degree</i> (42+ credit siting Artists Program)
Total: 60-66	credit hours
MEDA 101	Media Literacy
MEDA 102	Media Production I
MEDA 105	Computers and Society
MEDA 152	Media Production II
MEDA 200	Systems, Languages and Protocols
MEDA 215	Interactive Design I
MEDA 220	Sight, Sound and Motion
MEDA 265	Interactive Design II
MEDA 310	Media Criticism
MEDA 360	Film and Special Effects
MEDA 441	Media Arts Practicum
MEDA 480	New Media Writing
MEDA 495	Media Arts Capstone
Minor program	m of study 18-24 credit hours

Bache	elor	of	Fine	Arts	Degre	e,	Media
Arts	Sou	nd	Prod	uction	(75	cre	ədit
hours	+	Vis	sitina	Artists	Pro	arar	n)

nouis + vi	siling Anisis Frogram	
MEDA 102 MEDA 105	Media Production I Computers and Society	3 3
MEDA 152	Media Production II	3
MEDA 200	Systems, Languages and Protocol	3
MEDA 215	Interactive Design I	3
MEDA 265	Interactive Design II	3
MEDA 301	Media Performance Studio I	3
MUS 476	Audio and Desktop Multimedia	3
MEDA 352	Media Production III A/V	3
MEDA 355	InteractiveDesign III	3
MEDA 410	Media Production IV A/V	3
MEDA 441	Media Arts Practicum	3
MEDA 480	New Media Writing	3
MEDA 495	Media Arts Capstone	6
MUS 101	Music Theory Non-Majors I	3
MUS 102	Music Theory Non-Majors II	3
MUS 115	Music Appreciation	3
MUS 440	Elec. Music Composition I	3
MUS 441	Elec. Music Composition II	3
MEDA 365	Sound Studio I	3
MEDA 370	Sound Studio II	3
Music/Media	Arts Electives	9
	Sound Production majors are to select a minor.	

Bache	əlor	of	Fine	An	ts	Degre	е
(54+	cre	dit	hours	+	Vi	siting	Artists
Progra	am)						

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Total: 72-78 credit hours
MEDA 101 Media Literacy 3
MEDA 102 Media Production I 3
MEDA 105 Computers and Society 3
MEDA 152 Media Production II 3
MEDA 200 Systems, Languages and 3
Protocols
MEDA 215 Interactive Design I 3
MEDA 265 Interactive Design II 3
MEDA 301 Media Performance I 3
MEDA 310 Media Criticism 3
MEDA 350 Media Performance II 3
MEDA 352 Media Production III A/V 3
MEDA 355 Interactive Design III 3
MEDA 360 Film and Special Effects 3
MEDA 410 Media Production IVAN 3
MEDA 441 Media Arts Practicum 3
MEDA 480 New Media Writing 3
MEDA 495 Media Arts Capstone 6
Minor program of study 18-24 credit hours
B.F.A., students must complete a
minor in one of the following fine arts
fields: Studio Art, Music, Computer
Science. Communication or Theatre.
Minors range from 18 to 24 credit
hours. Students should be advised by
both the minor department and the
Media Arts program to determine
appropriate courses. B.F.A. students

are required to maintain a 2.75 grade point average in Media Arts courses and pass a faculty review of portfolio work at the end of the sophomore year. If a B.F.A. candidate does not meet the required standards they may be encouraged to consider the Media Arts B.A. program or an alternate area of study.

WOMEN'S STUDIES

(Interdisciplinary Studies minor only) Office: 258 Fenton Hall (716) 673-3851 Adrienne McCormick, Director

Women's Studies Program Office Office: 171A Fenton Hall (71 6) 673-3158 E-mail:Women.Studies@fredonia.edu http://www.fredonia.edu/womanstudies

Women's Studies is the study and recognition of the social construction of gender and its grouping with class, race, age, ethnicity, nationality and sexual identity. Women's Studies is a recognized and vibrant curricular field, whose academic function is to analyze society's changing definitions of women and their roles and to offer analyses exploring why and how these changes came about.

The goals of the interdisciplinary minor in Women's Studies are: to introduce a recognized and well-documented area of scholarship to the college curriculum; to challenge the students to contemplate the ways that gender informs our knowledge of the world; and to support and enhance the college's commitment to pluralism and multiculturalism.

The academic core of the Women's Studies program focuses on:

- an interdisciplinary, multiperspectival approach to the concept of gender as a social construct;
- a critical and cultural analysis of the female experience through work in feminist theory;
- race, ethnicity, nationality, class, age and sexual identity as central categories of analysis.

Student Organizations and Activities

The Women's Student Union (WSU) provides opportunities for students to program special events, participate in relevant off-campus activities, and sponsor activities to raise awareness of women's and gender issues on campus and in the community.

Women's History Month, co-sponsored by WSU and Women's Studies, brings a diverse array of speakers and performers to campus in March to celebrate women's contributions and discuss contemporary issues facing both women and men.

An annual Undergraduate Conference on Women and Gender celebrates student research in women's studies and gender-related areas. Student winners present summaries of their work in a recognition ceremony.

Departmental Awards

The Dean's Award for Excellence in Research on Gender, a cash award, is presented during the undergraduate conference for the outstanding research of the entries submitted.

Requirements for the Minor

Completion of the interdisciplinary minor requires a minimum of 21 credit hours. Up to 6 credit hours of transfer credit may be applied to the minor, based on approval by the director. Students declaring the Women's Studies minor may use past courses retroactively after consultation with the director.

Required Courses (12 credit hours):				
WOST 201	Introduction to Women's	3		
	Studies (offered in fall			
	semester)			
WOST 301	Feminist Theory (offered in	3		
	the spring semester)			
WOST 302	Sex and Gender (offered	3		
	annually)			
WOST 401	Feminist Practice	3		
	(Independent Study)			

Elective Courses: a minimum of 9 credit hours from the following categories; groups A and B must both be represented. No more than 3 credit hours of electives can be at the 200-level.

A. Wo	omen	and Culture
AMST 2	202	Introduction to American
		Studies
AMST 2	210	Popular and Mass
		Cultures of the Americas
ENGL 2	296	American Identities
ENGL 3	304/	Latina Literary and
INDS 3	304	Cultural Studies
ENGL 3	314	Major Women Novelists
ENGL 3	340	Black Women Writers

ENGL 344	Contemporary Multicultural American Literature
ENGL 386	Women and Film
HIST 220	Introduction to Race and
	Ethnicity
HIST 333- 334	African American History
HIST 335	American Women
HIST 336	African American
	Women's History
HIST 353	U.S. Consumer Culture
PHIL 312	Current Moral Issues
PHIL 313	Philosophy of Sex and
	Love
PHIL 338	Marxist Thought
WOST 203	
	Visual Artists
WOST 304	
	Studies
WOST 336	African American
	Women's History
	Women & Film
	es such as the Brontes,
	omen Writers, Major American
	s they are offered, with
permission of	

B. Women and Society

ANTH 219 BIO 360 COMM 373	
ECON 312	Women in the Economy
POLI 276	Law and Society
POLI 371	Civil Rights and Liberties
	or
POLI 382	Social Welfare Policy
PSY 276	Human Sexuality
PSY 365	Social Development
	or
PSY 370	Cross-Cultural Psychology
PSY 255	Psychology of Women
SOC 201	Social Problems
	or
SOC 303	Social Class and
	Inequality
SOC 320	Family Sociology
	or
SOC 321	Population and Society
SOC 337	Sociology of Aging
SOC 345	Women, Health and
	Society
SOC 361	Law and the World
WOST 255	Psychology of Women
WOST 373	
	Communication
WOST 377	Special Topics

(Other courses as they are offered, after consultation with director.)

STATE UNIVERSITY OF NEW YORK

UNIVERSITY CENTERS/ DOCTORAL GRANTING INSTITUTIONS

Albany Binghamton Buffalo Stony Brook College of Ceramics at Alfred University College of Optometry Cornell University: Agriculture and Life Sciences Human Ecology Industrial and Labor Relations Veterinary Medicine Environmental Science and Forestry Health Science Center at Brooklyn Health Science Center at Syracuse

UNIVERSITY COLLEGES

Brockport Buffalo Cortland Fredonia Geneseo New Paltz Old Westbury Oneonta Oswego Plattsburgh Potsdam Purchase Empire State College

TECHNOLOGY COLLEGES

Alfred State Agriculture and Technology at Cobleskill Agriculture and Technology at Morrisville Canton Delhi Farmingdale Maritime College Utica/Rome

COMMUNITY COLLEGES

Adirondack Broome Cayuga Clinton Columbia-Greene Corning Dutchess Erie Fashion Institute of Technology Finger Lakes Fulton-Montgomery Genesee Herkimer County Hudson Valley Jamestown Jefferson Mohawk Valley Monroe Nassau Niagara County North Country Onondaga Orange County Rockland Schenectady County Suffolk County Sullivan County Tompkins Cortland Ulster County



GENERAL STATEMENT

The State University of New York's 64 geographically dispersed campuses bring educational opportunity within commuting distance of virtually all New Yorkers and comprise the nation's largest comprehensive system of public higher education.

When founded in 1948, the university consolidated 29 state-operated but unaffiliated institutions whose varied histories of service dated as far back as 1816.

Today, more than 402,000 students are pursuing traditional study in classrooms and laboratories or are working at home, at their own pace, through such innovative institutions as the SUNY Learning Network and Empire State College. The State University enrolls 40 percent of all New York State high school graduates.

The distinguished faculty is recruited from the finest graduate schools and universities throughout the United States and many countries around the world. Their efforts are regularly recognized in numerous prestigious awards and honors, including the Nobel Prize.

The State University's research contributions are helping to solve some of today's most urgent problems. State University researchers pioneered nuclear magnetic resonance imaging and the supermarket bar code scanner, introduced time-lapse photography of forestry subjects and isolated the bacteria that causes Lyme disease.

The university's program for the educationally and economically disadvantaged, consisting of Educational Opportunity Programs and Educational Opportunity Centers, has become a model for delivering better learning opportunities to young people and adults traditionally bypassed by higher education.

The 30 locally-sponsored two-year community colleges offer local citizens programs that are directly and immediately job-related as well as degree programs that

serve as job-entry educational experience or a transfer opportunity to a baccalaureate degree at a senior campus.

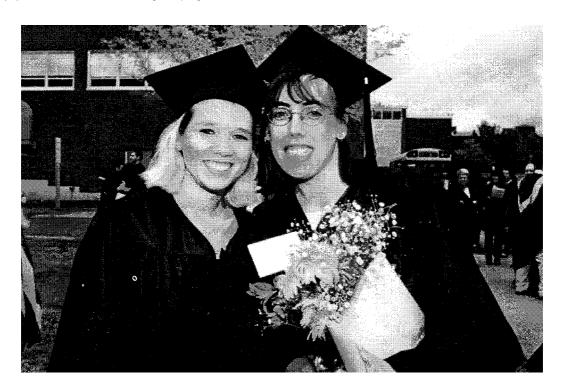
In 1998, the Governor and the State Legislature approved a multi-year, \$2 billion capital construction program for the university. This investment in critical maintenance will protect the university's infrastructure, valued at nearly \$11 billion, and enable the university to keep pace with modern technology for the benefit of students and faculty.

In 1995, the SUNY Board of Trustees developed the document Rethinking SUNY, in response to a call from the State Legislature for a "multi-year, comprehensive system wide plan to increase cost efficiency." Underlying Rethinking SUNY is the theme of increasing efficiency by empowering campuses to manage directly more of their academic and financial affairs and by eliminating disincentives to the prudent use of campus and system resources.

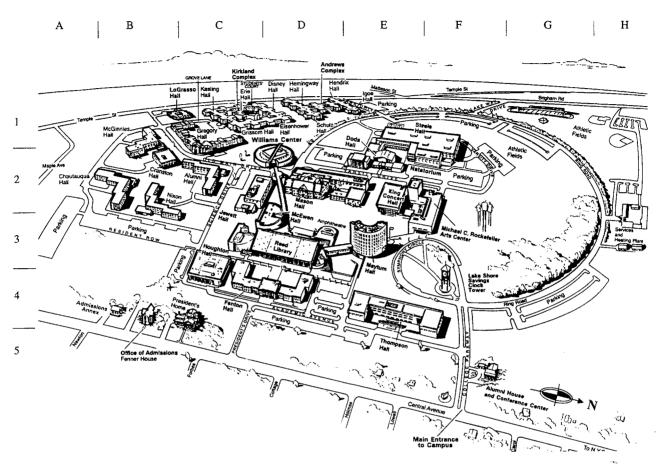
The State University's involvement in health science education is extensive. Hundreds of thousands of New York's citizens are served each year by faculty and students in university hospitals, clinics or affiliated hospitals. The university's economic development services programs provide research, training and technical assistance to the state's business and industrial community. State University libraries, which support teaching and research activities, are an important community resource.

The State University of New York is governed by a Board of Trustees, appointed by the Governor, which directly determines the policies to be followed by the 34 state-supported campuses. Community colleges have their own local boards of trustees whose relationship to the State University Board is defined by law.

The university's motto is: "To Learn - To Search - To Serve."



CAMPUS MAP



- C-2 Alumni Hall Residence H-5 Alumni House and Conference Center
- E-1 Andrews Complex Residence
- A-2 Chautauqua Hall Residence
- B-2 Cranston Hall Dining
- F-2 **Dods Hall** Physical Education
- C-1 Erie Hall Dining
- B-5 Fenner House Office of Admissions
- D-4 **Fenton Hall** Classrooms/ Offices/President's Office
- C-2 **Gregory Hall** University Police/FSA/ Residence Life/ Career Development

- Hendrix Hall Residence/WNYF-TV
- c-4 Houghton Hall Sciences
- D-3 Jewett Hall Sciences
- E-2 King Concert Hall

E-1

C-1

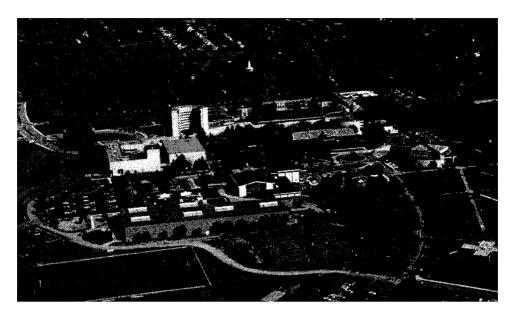
B-1

E-2

D-3

- Kirkland Complex Residence
- F-4 Lake Shore Savings Clock Tower and Carillon
 - LoGrasso Hall Health Center/ Lifelong Learning and Economic Development/ Counseling Center
 - Mason Hall Music
- F-4 Maytum Hall Offices
 - **McEwen Hall** Classrooms/ Fredonia Radio Systems
- B-2 **McGinnies Hall** Residence Michael C. Rockefeller G-3 Arts Center E-2 Natatorium B-3 Nixon Hall Residence C-5 President's Home Reed Library D-4 Learning Center J-3 Services Complex Maintenance/Heating Plant/Central Receiving G-2 Steele Hall Fieldhouse F-5 Thompson Hall School of Education/ Social Sciences/ School of Business/ Media Center D-2 Williams Center





THE GRADUATE PROGRAM

Office: 810 Mayturn Hall (716) 673-3808 E-mail: Graduate.Studies@fredonia.edu Joan A. Burke, *Interim Graduate Dean*

The State University of New York at Fredonia offers programs of graduate study leading to the degrees of Master of Arts, Master of Science, Master of Music, Master of Science in Education, and Advanced Certificate in school administration and supervision and in TESOL (Teaching English to Speakers of Other Languages). Professional certification to teach in the public schools of New York may be secured concurrently with the master's degree if the student follows a program designed for this purpose. Graduate instruction at Fredonia is offered during the academic year and in summer sessions. Many courses are scheduled in the late afternoons and evenings to accommodate the employed student.

Each degree student's program is individually formulated in consultation with a departmental advisor. Within the framework of this program, the student pursues graduate study consistent with his/her previous preparation and directed toward his/her own professional objectives.

The Graduate Faculty

Graduate courses are taught by faculty members who by their scholarly attainments in their own fields of specialization have demonstrated their competence to offer graduate instruction. Since most classes are small, students are able to work closely with their instructors, and often join them in research projects. Information about the research interests of faculty members is available from their department chairpersons.

The Graduate Council

The Graduate Council consists of one appointed faculty member representing each department with a graduate program; two elected members from the faculty-at-large, one from Arts and Humanities and the other from Natural and Social Sciences and Professional Studies; one graduate student recommended by the council members and appointed by the Student Association; and the Graduate Dean who is the presiding officer. Appointed members serve at the discretion of their departments. Elected representatives serve three-year terms. Current members include:

Joan A. Burke, Interim Graduate Dean, Professor, English

Barbara Mallette, *Interim Director, School of Education* Donald A.J. Bohlen, *Professor, School of Music*

Gregory F. Harper, *Elected-at-Large, Natural and Social Sciences and Professional Studies, Professor, School of Education*

Keary J. Howard, Assistant Professor, Mathematics/Computer Science

- Mark Janik, Assistant Professor, Chemistry
- Robert Marzec, Assistant Professor, English

Terence D. Mosher, *Elected-at-Large, Arts and Humanities, Associate Professor, English*

Tammy Neu, *Graduate Assistant, School of Education* Dennis M. Perez, *Associate Professor, Speech*

Pathology and Audiology

Wayne N. Yunghans, *Professor, Interim Chair of Biology*

The Graduate Council is charged with developing and supporting master's degree programs that provide a sound education for graduate students, lead to advanced qualification in the professions and disciplines, and generate new knowledge through the research and publication of its faculty and students. The committee's primary functions are to approve new graduate course additions and deletions, to develop standards for admission, to oversee matriculation and graduation standards, and to recommend new and/or revised graduate programs and policies to the Vice President for Academic Affairs and the College Senate. Following each meeting of the Council, a report of all actions taken and policies recommended is sent to the Vice President for Academic Affairs and the Executive Committee of College Senate. The Graduate Education Program declares as its mission:

- To improve the quality of life for present and future generations by providing a sound education for graduate students.
- To contribute to the knowledge and practice of professionals already in the field and to prepare teachers and administrators of elementary/ secondary schools, and health care providers.
- To complement and enhance the undergraduate program by providing models of advanced work in the disciplines and professions.
- To generate and share new knowledge through the research and publication of its faculty and students.
- To provide and support master's degree programs leading to advanced qualification in the professions and disciplines.
- To be actively involved in the life of the surrounding community, in curriculum development, in related professional activities; to encourage a supportive sense of community, and to influence and facilitate the development of social and educational policy.
- To acknowledge the value of pluralism and diversity in culture and society.

Admission to Graduate Study

All students who wish to take graduate courses and/or pursue an advanced degree or certificate must complete the application process. Application packets are available online at www.fredonia.edu/GradStudies/ and in the Office of the Graduate Dean. Completed applications need to be submitted to the Graduate Dean by February 1 for admission to Speech Pathology and Audiology for the summer and fall semesters, by April 1 for all other programs for the summer and fall semesters, and by November 1 for admission to all programs beginning in the subsequent spring semester. All applications must be accompanied by a non-refundable application fee of \$50. Applications received after the dates above will be processed on an incoming basis, but the fee rate for late applications will be \$100. Students who submit late applications may temporarily be granted "non-degree status" until a final acceptance decisions has been reached. Non-degree students are permitted to take a total of only 9 credit hours.

Admission to graduate study is based on the following requirements:

1. Completion of the baccalaureate degree at an accredited four-year institution with an appropriate major and depth of undergraduate preparation.

2. An Application for Admission to Graduate Study filed with the Graduate Dean and approved by the chairperson of the desired department and by the Graduate Dean.

3. Submission of official transcripts from all institutions attended (except Fredonia) covering prior graduate as well as undergraduate preparation.

4. Submission of at least two recent letters of recommendation from individuals who can attest to the applicant's qualifications for advanced study.

5. For students in programs leading to permanent certification to teach, proof of the appropriate provisional certification.

Summer Sessions

During the summer months, SUNY Fredonia offers a comprehensive program of undergraduate and graduate course work.

The availability of residence hall living, a wide range of recreational activities, and a busy schedule of cultural events enable the summer student to enjoy a full college life. The combination of intellectual stimulation in the classroom and a summer resort atmosphere on the campus can provide a very rewarding experience.

For additional information, please contact the Graduate Dean at (716) 673-3808.

Good Academic Standing

Graduate students pursuing a degree are required to maintain a minimal grade point average of **3.0**. At the end of each semester, the records of all degree students are reviewed. Students whose cumulative average is below 3.0 are placed on academic probation for one semester. If, at the end of their next semester, they have not re-established the required average, they will be required to withdraw from the college. A student is considered to be in good academic standing even while on probation. The purpose of the probationary semester is to give the student sufficient warning of academic danger.

The college is aware that there may be exceptional circumstances that make it impossible for a student to regain the required academic average at the end of one semester. Under those circumstances the student, with the support of his or her advisor and the chairperson of the major department, may appeal the required withdrawal. As a general rule, students taking graduate courses without pursuing a degree who decide to apply for a degree program should have a grade point average of at least 3.0 at the time they apply. Under unusual circumstances, chairpersons may accept students with a lower GPA into a degree program, but in that case, the students enter in probationary status, with one semester in which to improve their records.

Graduate Degree Requirements

1. Completion of the specific curricular requirements for the degree, as outlined in this catalog, with a minimum cumulative quality point average of 3.00 in all graduate work at SUNY Fredonia.

2. Completion of all degree requirements within a five-year period beginning the semester of admission to a degree program, unless an extension has been recommended by the chairperson of the department in which the student is majoring and approved by the Graduate Dean. A graduate student is expected to make steady and reasonable progress, as determined by the department in which he/she is enrolled, toward the completion of his/her degree requirements. Students not making reasonably steady progress will be required to withdraw from the program.

3. Recommendation of the department in which the student is majoring.

4. Fulfillment of residence requirements (see below). A candidate for the master's degree must have completed at least **15** semester hours of graduate work in residence.

5. Application for the degree filed with the Registrar at least three months prior to the expected date of completion of degree requirements.

A maximum of 9 hours credit (of which a maximum of 6 credit hours in Education courses) in graduate work earned while enrolled as a non-degree student may be applied toward the master's degree, subject to the recommendation of the major department and approval of the Graduate Dean.

The requirements to be met for a graduate degree are those in effect at the time the student is admitted to the degree program.

Thesis and Comprehensive Examination

All degree programs require a thesis, comprehensive examination, or other evidence of the student's mastery of his/her field. Information concerning the requirements for individual programs is contained in the descriptive material under curricular requirements in this catalog. As the time for the final comprehensive examination, thesis, or project draws near, the student is directed by a graduate committee of at least three members, representing the student's major and related fields of study. Committee members are appointed by the chairperson of the major department. One member of the committee is named as the student's major professor. In addition to advising the student on matters pertaining to the program of study, the committee supervises the preparation of the thesis or research project and administers the final written or oral comprehensive examination.

Thesis and comprehensive examination requirements must be completed at least four weeks prior to the expected date of the award of the degree. All master's theses will be prepared in accordance with a set of uniform instructions which may be secured from the Graduate Dean. A description of specific departmental requirements for the comprehensive examination may be obtained from the individual departments.

Advisement and Registration

At the time of admission to graduate study, the degree-program student is assigned a faculty advisor according to his or her program of study. The student should consult the advisor regularly to discuss the progress of his or her studies, and the advisor should approve the student's overall program. All graduate students are encouraged to register during the time periods listed in the college calendar. A service charge of \$30 is imposed for late registration.

Completion of a Degree Program

The application for graduation (Application for Degree) should be filed with the Office of the Registrar three months before the expected completion of the degree.

When a graduate degree program is completed, and the necessary fees paid, a student should request his/her department to recommend to the Graduate Dean the approval for the award of the degree. Degrees are awarded in May, August, and December.

The potential degree candidate list is prepared in March and it is the student's and advisor's joint responsibility to see that all eligible persons are named on this list. Students completing degrees in December will have their degrees formally conferred at the following May Commencement.

Residence Credit

Students accepted in graduate degree programs must complete at least 15 semester hours of residence credit. Residence credit is defined as credit granted by SUNY Fredonia for course work taught by Fredonia faculty or other staff approved by the appropriate college officials, whether on or off campus.

Transfer of Credit

For credit to be accepted from another institution, it must form a related part of the student's total graduate program. Students are advised to secure prior approval before registering for credit courses at other colleges or universities. The request for such approval must include catalog number and title, and be accompanied by a description of each course proposed for transfer credit. Credit will be given only for courses in which the student earns grades of A or B. Transfer credit may not be included in the computation of the graduate student's average. No more than 15 semester hours of credit with permission from the department chairperson and the Graduate Dean will be transferred to a degree program. Courses transferred into a degree program cannot be more than five years old by the time the degree requirements are completed, unless an extension of time has been granted.

Certification

Important Notification to Education Majors

The State of New York State has changed some certification titles for teacher education programs. As these new programs are implemented, requirements may be altered according to local and state specifications. Graduate students should check with faculty advisors for clarification of program and certification requirements.

Master's degree programs leading to permanent/professional certification to teach in the public schools of New York State are offered in the fields of Biology, Chemistry, Elementary Education, English, Mathematics, Music Education, Reading, Social Studies, and Speech and Hearing Handicapped. A post-master's program leading to an Advanced Certificate and permanent certification is offered in school administration and supervision, and in TESOL. The Application for Certification should be filed with the Office of the Registrar three months before the expected completion of requirements.

The general requirements for a permanent/professional certificate as set forth by the State Education Department are the completion of the baccalaureate degree, including the requirements for provisional certification, completion of

an approved master's degree, and a minimum of two years of full-time elementary and/or secondary service in the candidate's area of provisional certification. Requirements for professional certification are under review by the New York State Education Department.

Any questions or concerns dealing with the process of acquiring certification in the field of Education or Music should be directed to either the School of Education or the School of Music.

Academic Credit and Course Load

The unit of academic credit is the semester hour, which normally represents one hour of lecture or recitation each week per semester. Seminars, research courses, and laboratories bear academic credit appropriate to the work expected of the student in the course.

The maximum course load for a full-time graduate student is 15 hours per semester during the academic year and 6 semester hours in each summer session. Students employed full-time may not carry more than 6 hours per semester during the academic year. Graduate assistants normally carry a course load of from 6 to 9 semester hours during the fall and spring sessions and 3 to 4 hours during a summer session.

Upon recommendation of the chairperson of a student's major department and approval of the Graduate Dean, work experience directly related to the student's academic program may be given academic credit via the appropriate departmental Independent Study course number. Decisions about such credit are subject to the requirements for independent study in the department and include approval prior to the work experience except in unusual circumstances. No more than 6 credit hours of such work may be applied to the fulfillment of the requirements for a graduate program.

Graduate Course Numbers

Courses numbered 500-599 are graduate courses that may be open to qualified undergraduates. Qualified undergraduates may apply to enroll in a limited number of 500-level graduate courses, either for undergraduate or graduate credit. Qualifications and procedures may be found in the academic policy section of this catalog.

Courses numbered 600-699 are graduate courses open to graduate students only.

Although all graduate programs are normally composed of courses from these levels, under exceptional circumstances up to 6 credit hours of 300- or 400-level courses outside the major area of specialization may be included. This action requires the recommendation of the faculty advisor, the approval of the chairperson of the department in which the student is majoring and the approval of the Graduate Dean prior to the student's enrollment in the course. Undergraduate courses taken in the major area of specialization may not receive graduate credit.

Full and Part-time Status

Nine semester hours is considered a full-time academic load. Students should be aware that for some state and federal financial aid programs, funding as a full-time student requires either 12 semester hours, or a minimum of 6 hours plus a graduate assistantship.

Grading System

All courses taken for graduate credit are evaluated by the letter grades A, A-, B+, B, B-, C+, C, C-, D, E (failure), S (satisfactory), U (unsatisfactory), I (incomplete), and X (continuing enrollment). D and E grades do not carry credit toward a master's degree but are included in the cumulative average. The S grade (satisfactory) is resewed for courses that are not readily evaluated by the usual letter designations. Any course in which S or U (unsatisfactory) grades are used would be so designated by the department when offered and, in the case of Special Topics courses, in the Course Offerings Bulletin. S grades carry no quality points and hours earned with an S grade are not included in figuring the semester or cumulative average. Hours failed with a U grade are added into the total hours for the quality point average. A maximum of 6 hours credit with grades of S may apply to the requirements for the master's degree. Each semester hour of A carries four quality points; B, three quality points; C, two quality points; and D, one quality point. Incompletes must be removed before the end of the succeeding semester; otherwise the I becomes an E on the permanent record. An X grade that has not been converted to a credit-bearing grade by the end of the second regular semester after the semester for which the X was given will change to an E grade. The responsibility for finishing incomplete work rests with the student. Graduate students may not exercise the course-repeat option to remove poor grades from their records.

Schedule Changes

Changes in student class schedules must be filed in the Office of the Registrar within the period prescribed by that office. Students may drop courses through the first week of the semester by obtaining the necessary form and submitting it to the Office of the Registrar. Dropped courses will be removed from the student's permanent record. A fee of \$15 will be assessed for any course adjustment made after the published deadline.

Withdrawal

Beginning with the second week to the seventh full week of the semester, a student may withdraw from a course. A "WC" grade is assigned in such cases and course withdrawal requires the approval of the student's advisor or department chairperson. The withdrawal grade will be recorded on the student's permanent record but will not be counted in the student's quality point average.

Exact dates for the drop/withdrawal period apply to all full-semester courses and are given in the college calendar and in the appropriate *Course Offerings Bulletin.*

The college reserves the right to require any student who is not maintaining minimum academic standards or who is not in good academic standing to withdraw.

Grade Appeal

A student who feels that a course grade or other grade reported for his/her is incorrect has the right of appeal by the following procedure:

1. He or she first discusses the grade with the instructor.

2. If after this discussion the student is still unsatisfied, he or she may appeal to the chairperson of the department.

3. If the chairperson decides that the student's case has merit, he or she appoints an ad hoc committee composed of two members of the faculty in the department, other than the faculty member involved, and one student who is a graduate student in the department.

4. The committee reviews the case, interviews the student and the instructor separately, and reaches a judgment by majority vote. This judgment is communicated to the chairperson, who in turn reports it to the student and the instructor.

5. If a change of grade is recommended by the committee, the instructor may initiate a change, or the committee's recommendation is forwarded to the Graduate Dean and the Vice President for Academic Affairs for their consideration. The Vice President for Academic Affairs may modify the grade if the committee so recommends.

Financial Aid

Financial aid information can be obtained by visiting the office's web site at www.fredonia.edu/finaid.

Graduate students may be eligible for the following forms of financial aid. Application is made for federal aid by completing a Free Application for Federal Student Aid (FAFSA - use Code 002844) and for state aid by completing a New York State Express TAP application (use Code 0915).

Tuition Assistance Program (TAP): To qualify for Tuition Assistance, graduate students must be legal residents of New York State for at least one year, be in full-time attendance (12 credit hours per semester), and be enrolled in a program leading to a degree. The amount of tuition award is based on the net state taxable family income.

The Federal Stafford Student Loan Program consists of the Subsidized Stafford Loan and the Unsubsidized Stafford Loan. Applicants for either program first complete the Free Application for Federal Student Aid (FAFSA) using Code 002844 to release the data to Fredonia. A student must be enrolled as at least a half-time student (6 credit hours per semester) and must be either a U.S. citizen or permanent resident of the U.S.

Upon receipt of the FAFSA data from the Federal Central Processor, the Fredonia Financial Aid Office determines loan eligibility, and the New York State Higher Education Services Corp. (NYSHEC) provides an on-line Master promissory note for first-time loan borrowers at www.hesc.com.

The primary differences between **Subsidized** and Unsubsidized Stafford Loans:

Subsidized: Interest is paid by the federal government during in-school, grace and deferment periods and is based on need.

Unsubsidized: Interest is paid by the student during in-school, grace and deferment periods and can be used to replace expected family contribution.

The Subsidized and Unsubsidized Stafford Loans are similar in the following ways:

1. Variable Interest Rate - Treasury Bill plus 1.7 percent with an 8.25 percent cap.

2. Repayment on principal begins six months after enrollment on at least a half-time basis ends.

Annual maximums for Subsidized and Unsubsidized Stafford Loans combined:

\$2,625 for freshmen
\$3,500 for sophomores
\$5,500 for juniors
\$5,500 for seniors
\$18,500 for graduate students

Aggregate limits: \$46,000 for undergraduate study \$138,500 for undergraduate and graduate combined

Electronic Funds Transfer: Loan approvals are sent electronically in two separate disbursements (minus a 3 percent origination fee) by the lender to the college. The first disbursement normally arrives at the Office of Student Accounts one to two weeks after the loan approval during the academic year. The second disbursement is made at the midpoint of the loan period (for the majority of students this is during the first two weeks of the spring semester.

Good Academic Standing Requirements and Receipt of Graduate Aid

Requirements: State and federal regulations require that all financial aid recipients maintain program pursuit and make satisfactory progress toward completion of degree program requirements (referred to as Good Academic Standing). The Office of Financial Aid at Fredonia evaluates student aid recipient progress according to state requirements for TAP at the completion of each semester. The Office of Financial Aid evaluates progress according to federal requirements for Stafford and Parent loans at the completion of the academic year. Students should refer to the chart below.

Before Being Certified For This Payment	1	2	3	4	5	6	7	8
Percentage Of Attempted Hours That Must Be Completed With A Passing/Failing Grade	0	100%	100%	100%	100%	100%	100%	100%
A Student Must Have Accrued At Least This Many Credits	0	6	12	21	30	45	60	75
With At Least This Grade Point Average	0	2.00	2.50	2.75	3.00	3.00	3.00	3.00

Notification Procedure: The Office of Financial Aid will notify the student between two and four weeks after the conclusion of each semester if Good Academic Standing Requirements were not met while the student received federal andlor state aid. The letter will inform the student of loss of aid for the semester immediately following the one in which program pursuit and satisfactory academic progress were not met and will also apprise the student of the waiver procedure to follow if the student feels financial aid should be reinstated.

Waiver Procedure: A waiver to reinstate state aid (TAP) is available only once during graduate study. A request to reinstate federal aid may be granted only if exceptional circumstances can be documented. Waivers and reinstatement of aid are not automatic. They are approved only if in the best interest of the student and only if unusual circumstances (i.e. family illness or death, personal illness, personal emotional disturbances, change(s) in educational objective) prevented the student from meeting the expected criteria.

Graduate Opportunity Tuition Waiver: The Graduate Opportunity Waiver Program provides a full waiver of tuition to former EOP, SEEK, or HEOP students who are accepted or enrolled as full-time students in a graduate degree program. To apply, students should submit proof that they were enrolled as undergraduates through one of the special admission programs named. Contact any EOP or HEOP office for information.

Vocational and Educational Services for Individuals with Disabilities (VESID): The State of New York, through the Division of Vocational Rehabilitation, provides financial assistance for those students who qualify under prescribed conditions. For additional information contact the nearest Rehabilitation Office.

Veterans Administration Educational Benefits: Those veterans or dependents who are, or feel they are, eligible for federal financial assistance through the Veterans Administration should contact the Coordinator, Office of Veterans Affairs (McGinnies Hall, 716-673-3423) to complete appropriate forms. Students are urged to begin their VA paperwork before the beginning of the school term in order to hasten processing. To further facilitate the start of benefits, the veteran, or the children, spouses, and/or survivors of veterans whose deaths or permanent total disabilities were service-connected, should present pertinent data, such as the service number, Social Security number, dates of service, discharging papers, and any other VA claim information.

Assistantships/Fellowships

Assistantships: Graduate, research, and teaching assistantships are available to highly qualified graduate students in many academic departments. Graduate assistants normally carry a 9 hour course load and perform duties in laboratories, lecture halls, and classrooms. The stipends for assistantships generally begin at \$6,500 plus any negotiated increases for the academic year in addition to waiver of tuition in accordance with the policies and procedures established by the Board of Trustees.

Applicants for academic assistantships should indicate their interest on the graduate application form.

Minority Graduate Fellowship Program: This is a competitive program that provides underrepresented minority graduate students with a stipend to enhance their ability to complete their graduate studies. To be eligible, applicants must be, (1) U.S. citizens or have permanent resident status; and (2) members of one of the following groups: Native American Indians, African Americans, or Hispanic Americans. In addition, special Graduate EOP Tuition Scholarships are available to cover tuition casts for graduates of Educational Opportunity/Higher Educational Opportunity programs. (See Graduate Opportunity Tuition Waiver, this page.) For details, students should contact the Office of Graduate Studies, (716) 673-3808.

* Graduate Tuition And Fees Tuition

Full-time, per semester:

New York State Resident	\$2,550
Out-of-state Resident	\$4,208
Part-time, per credit hour:	
New York State Resident	\$213
Out-of-state Resident	\$351

Note: The above rates are for degree students. In most cases, these rates also apply to non-degree students. However, part-time non-degree students are charged by course level, i.e., \$137 or \$346 per undergraduate-level credit hour and \$213 or \$351 per graduate-level credit hour.

Note: In January 2003, the SUNY Board of Trustees approved an annual tuition increase of up to \$1,400. A final figure was not approved at press time for this catalog. Please contact the Office of Student Accounts for up-to-date information.

Fees

College Fee:

Full-time	student	\$12.5	0 ре	er sem	lester
Part-time	student	\$0.85	per	credit	hour

Student Services and Program Charge:

Full-time	student	\$477.50 per semester
Part-time	student	\$39.80 per credit hour

* All fees and rates are subject to change. See the Student Accounts web pages for the current college charges at www.fredonia.edu/admin/studentaccounts/

Note: Further procedural information can be found in the Undergraduate section of this catalog.

GENERAL INFORMATION

Graduate students may attend all campus activities including special lectures and concerts. The Student Services and Program Charge covers the admission charge to many of these functions. The facilities of the Williams Center and of the Health, Wellness and Recreation department are available to graduate students.

Hours when each facility is open are published separately. Hours when academic buildings are open are published separately.

Veterans Affairs

The Office of Veterans Affairs, located in McGinnies Hall, is staffed by the coordinator and work study students. They provide routine certification of enrollments. The staff also monitors student progress and is available for information and referral for problems that might arise. Policy among various administrative offices, as it relates to VA recipients, is also coordinated through the Office of Veterans Affairs. The coordinator is in liaison with the Regional Office in Buffalo for those situations that might need special attention.

Auto Use

Graduate students who operate automobiles on campus are required to register them with the Office of Student Accounts during the first week of the semester. Parking permits, valid during the academic year, will be issued to eligible students.

Housing/Residence Life

The Office of Residence Life is located in Gregory Hall and is readily available to accommodate graduate students. The residence halls are located close to the academic facilities and provide excellent housing accommodations. Special interest areas have been established and students may inquire at the Office of Residence Life for suitable assignments. A limited file of off-campus housing facilities is maintained in the Student Association office, located in the Williams Center.

For further information, students should write directly to the Office of Residence Life, State University of New York at Fredonia, Fredonia, NY 14063.

Note: Graduate residence director positions are often available. Please contact the Director of Residence Life for more information.

Registered Degree Programs

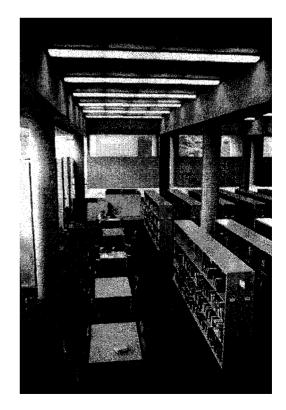
Listed on the following chart are SUNY Fredonia's registered degree programs, consistent with the inventory of registered degree and certificate programs maintained by the New York State Education Department. The chart contains the official approved program titles, degrees, and HEGIS code numbers. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

Degrees Offered

egrees Offered		
Master of Arts English	HEGIS 1501	Code
Mathematics	1701	
Interdisciplinary Studies	4901	
Master of Music		
Music Education K-12	0832	
Music Performance	1004	
Music Theory - Composition	1004.10	
Master of Science		
Biology	0401	
Chemistry	1905	
Interdisciplinary Studies	4901	
Speech Pathology	1220	
Master of Science in Education		
Adolescence Social Studies	2201.01	
Biology 7-12	0401.01	
Chemistry 7-12	1905.01	
Curriculum & Instruction	0829	
English 7-12	1501.01	
Mathematics 7-12	1701.01	
Literacy I (Birth-6)	0830	
Literacy II (5-12)	0830	
(formerly Reading Teacher)		
Speech and Hearing Handicapped	0815	
TESOL (Teaching English	1508	
to Speakers of Other Languages)		

Advanced Certificate

School Administrator and Supervisor 0828 TESOL 1508



GRADUATE STUDIES

This section lists graduate programs and requirements. For information on courses, see the course listings section of the catalog on page 105. Students should check the **Course Offerings Bulletin** each semester for an accurate list of proposed offerings.

BIOLOGY

Office: 203 Jewett Hall (716) 673-3282 E-mail: Biology.Department@fredonia.edu Wayne Yunghans, Interim Chairperson

The Department of Biology offers both the Master of Science degree in Biology and the Master of Science in Education (Biology 7-12). The department is well equipped, with instrumentation available for many types of biological research. Students interested in graduate teaching assistantships should apply in writing to the department chairperson. Faculty research interests include developmental biology, microbiology, microbial genetics, molecular biology, animal behavior, terrestrial ecology, trophic interactions, fisheries, physiological ecology of aquatic plants and animals, animal physiology, cell membrane biochemistry and hormone interaction, and algal physiology. Students completing the M.S. degree at Fredonia often go on to Ph.D. programs at major research universities or obtain positions in industry or government.

Master of Science

Departmental requirements for admission to program without deficiencies:

An undergraduate major in the Life Sciences with requisite evidence of training and motivation necessary to succeed in graduate study. Supporting science background to include physics, calculus, and organic chemistry. Prospective students should forward Graduate Record Exam scores along with their application for admission to the program.

Thesis Option	Hrs.
1. A minimum of 30 semester	hours,
including:	
Seminar (three semesters)	3
Thesis Research	6
Appropriate course work	at least
	21

Written Thesis

2.

3. Final Comp. Examination Total 3

Non-Thesis Option	Hrs.
1. A minimum of 30 semester	hours,
including:	
Seminar (three semesters)	3
Biology courses	18

- 2. Electives (any department) 9
- 3. Final comprehensive Exam Total 30

Appropriate courses are chosen after consultation with the student's thesis advisor and graduate committee. The Department of Biology strongly recommends broad training in biology. Specific courses chosen will depend on the student's background and interests, but a student should design a program combining molecular, organismal and population biology courses. BIOL 690-691 may not be used toward the Non-Thesis Option.

Master of Science in Education

Departmental requirements for admission to the program without deficiencies:

An undergraduate major in Biology or related science with requisite evidence of training and motivation necessary to succeed in graduate study. Supporting science background to include physics, calculus, and organic chemistry. Prospective students should forward Graduate Record Exam scores along with their application for admission to the program.

Candidates must have an initial certification to teach biology and general science in the secondary schools of New York State, or equivalent preparation.

Program Requirements Hrs. A minimum of 30 semester hours of graduate-level courses including:

1. General Requirements

EDU 570	Understanding	3
	Educational Research	
One course	in psychological,	3
historical, pl	hilosophical, or	
comparative	foundations of education	
	in pedagogy,	3
methodology,	or instruction	

2. Area of Certification

Eighteen credit hours as follows: Fifteen or more hours of 500- and at least 600-level courses in biology or 15 approved courses in related areas Seminar, BIOL 600 or 601 3

3. Special Project

Thesis, independent study project, or 3 research project from either professional education or biology

4. Final Examination

A two-part comprehensive examination will be required of each student - an intensive examination written in the areas of specialization; and a written examination covering the professional component of the student's program

Total 30

CHEMISTRY

Office: 207 Houghton Hall (716)673-3281 E-mail: Chemistry.Department@fredonia.edu Thomas S. Janik, Chairperson

Master of Science

Departmental requirements for admission to program without deficiencies:

An undergraduate major in Chemistry with courses equivalent to those required for a Bachelor of Science degree in Chemistry at Fredonia.

Program Requirements Hrs. 1. A minimum of 30 semester hours, includina:

Graduate-level courses in chemistry, 12-18 which can include up to 12 credit hours in courses from related fields, e.g., biology, geosciences, mathematics, and physics (approved in advance by the departmental Graduate Study Committee)

- 2. Research 12-18
- 3. Research Proposal
- 4. Seminar (One seminar/year is expected)
- 5. Written Thesis
- 6. Final Comprehensive Oral Examination

Total 30

Master of Science in Education: Chemistry 7-12

Department requirements for admission to program without deficiencies:

An undergraduate major in Chemistry with courses equivalent to those required for a Bachelor of Science degree in Chemistry at Fredonia.

Initial certification to teach chemistry in the secondary schools of New York State, or equivalent preparation.

Program Requirements

A minimum of 30 semester hours of graduate-level courses, including:

- General Requirements
 EDU 570 Understanding Educational 3 Research
 One course in the psychological, 3 historical, philosophical, or comparative foundations of education
 One course in pedagogy, 3 methodology, or instruction
- Area of Certification 6-15 Six (6) to 15 credit hours to be selected under departmental advisement from 500- and 600-level offerings in chemistry (6-12 credit hours) and related fields, e.g., biology, geosciences, mathematics and physics (0-6 credit hours).
- 3. Foreign Language 116 or 3 years high school foreign language
- 4. Research Proposal
- 5. Seminar (one seminar/year is expected)
- Research or Special Project 6-15 Thesis, independent study project, or research project from either professional education or chemistry
- 7. Thesis or Project Report
- 8. Oral Defense

EDUCATION

Hrs.

Office: E268 Thompson Hall (716) 673-3311 E-mail: Education.School @fredonia.edu Barbara Mallette, Interim Director Cynthia Smith, Associate Director

Important Notification to All Education Majors

All programs and degree options in the School of Education lead to New York State Certification. When Fredonia is successful in obtaining accreditation by the National Council for the Accreditation of Teacher Education (NCATE), all programs and degree options will also be held accountable to national standards. As such, any changes made by the New York State Board of Regents as well as the NCATE review board have the potential to impact the requirements of the program. Graduate programs are reviewed each semester to check compliance with state certification and national accreditation requirements. Candidates should meet with their faculty advisors and attend all advisement sessions for information on current program and certification requirements to become aware of any programmatic changes.

National Council for the Accreditation of Teacher Education (NCATE)

NCATE is a partnership of over 30 national professional organizations, representing over three million Americans, who have united to ensure high quality teacher preparation. NCATE ensures that subject matter content, and how to teach it, is the priority. NCATE standards expect the School of Education to base its programs on content and teaching



Total

30

standards set by professional associations in each content area. NCATE also expects candidates to gain a firm foundation in the liberal arts. NCATE endorsement adds credibility and national transportability to Fredonia certification programs.

Graduate Programs

The School of Education offers the following graduate degrees:

- Master of Science in Education: Curriculum and Instruction: Open to educators who possess certification in the following: Early Childhood Education Childhood Education Middle Childhood and Adolescence Education in Science
- Master of Science in Education: Secondary Education (offered by content departments)
- Master of Science in Education: Literacy I, Birth to Grade 6
- Master of Science in Education: Literacy II, Grades 5-12
- Master of Science in Education: Teaching English to Speakers of Other Languages (TESOL) and N.Y.S. Education Department certification in TESOL K-12
- Professional Certificate
 Program: TESOL
- In addition to these degrees, the School of Education also offers a program leading to the Certificate of Advanced Study: School Administrator and Supervisor (a name change in this program is anticipated to comply with New York State Education Department requirements for Education Administration certificates)

Program Philosophy and Conceptual Framework for All Certification Programs

All children can learn and they learn best when taught by reflective and responsive educators who carefully assess their instructional competence via reflections upon pupil performance. Responsive educators act upon information gleaned from their professional reflections; they make informed decisions and adjust instruction to enhance pupil progress. All candidates in the undergraduate School of Education programs complete a series of four, field-based experiences. Each field-based experience is taught in conjunction with a required education course to better establish the link between theory and practice. Each of the field experiences is highly structured, well supervised, and intended to provide multiple opportunities for candidates to Plan, Instruct, Reflect, and Respond. Candidates within graduate programs in the School of Education are expected to extend their ability to Plan, Instruct. Reflect. and Respond as they delve into the research base on educational practices.

Graduate candidates enroll in course work related to child and adolescent development, psychology in the classroom, and pedagogical strategies, as well as discipline-specific content courses that are linked to pedagogy. All of these courses strengthen the candidates' *Four Pillars of Understanding* — Knowledge, Pedagogy, Diversity, and Professionalism—which in turn support the process of effective planning, instructing, reflecting, and responding.

Course work and instruction are rooted in a *strong foundation* of research-based practices and strategies, contextual factors that influence instruction, and standards for teaching and learning. Graduate candidates are groomed to be critical consumers of research and fine-tune the process of evaluating instructional practices for effectiveness.

Requirements for All Certification Programs

Candidates in the School of Education are regularly monitored and evaluated throughout the program via degree-specific Gated Assessment Models. Each model includes a sequenced series of gates that must be passed through in order for a candidate to remain in good standing in the program. Specific requirements and deadlines, minimal satisfactory performance levels (including grade point average requirements), and remediation plans are detailed in the models. All candidates should obtain a copy of the appropriate Gated Assessment Model from an academic advisor and become familiar with the requirements established therein.

Note: Candidates transferring into a certification program (both internally and externally) must pass through each of the aforementioned gates regardless of the candidate's academic standing at the time of transfer.

Candidate Disposition for All Certification Programs

Candidates in professional education are expected to demonstrate a set of values and attitudes consistent with the highest professional standards. The values and attitudes must be demonstrated in concrete ways in their interactions with members of the faculty, school personnel, and most particularly with students.

Candidates are expected to demonstrate the following dispositions:

- An ability to evaluate students' achievement of learning outcomes and a willingness to reshape instruction accordingly;
- Willingness to seek a match between students' needs and teachers' objectives, methods, and materials for instruction that places students' needs at the center of the curriculum;
- A conviction that teachers help students grown by encouraging creativity;
- Sensitivity to the impact that events and developments in the world outside the school have on teachers, their colleagues, their students, and the curriculum;
- Evident enthusiasm for teaching, learning, and their subject matter;
- A belief in the learning potential of all students;
- An acceptance of supervision and constructive criticism;
- The desire to improve one's own teaching, and an active interest in seeking a constructive criticism toward that end;
- An enjoyment of working with young people;
- Continuing commitment to continuing professional development;
- Maturiy and dependability;

- Respect for the confidentiality of students' information;
- · Pride in teaching;
- A commitment to the concept of a community of learners and interaction with instructors as a member of such a community;
- Recognition of his or her personal strengths and weaknesses and the desire to improve his or her preparation to teach;
- The ability to handle problems calmly and effectively;
- The recognition of the importance of, and a desire to participate in, state and national associations, workshops, and activities; and
- Personal integrity.

Inappropriate behaviors may warrant remediation, probation, or dismissal from the program.

Special Requirements for All Certification Programs

Identification of Child Abuse and Maltreatment

All persons applying for certification on or after January 1,1991 are required to complete a minimum of two contact hours of course work or training in the identification and reporting of child abuse and maltreatment. The requirement can be met by satisfactory completion of EDU 224, EDU 225 or EDU 349, or by completing a state approved training workshop.

School Violence Intervention and Prevention

All persons applying for certification on or after February 2,2001 are required to complete a minimum of two contact hours of course work or training in the warning signs related to violence, policies related to safe climates and effective classroom management.

Fingerprinting and Criminal Background

Legislation effective July 1,2001, requires that all applicants for initial certification and all new school employees be cleared through FBI fingerprinting and criminal background check. The candidate incurs the costs for the fingerprinting and the background check. Current forms and regulations are available at www.highered.nysed.gov/tcert.ospra.

New York State Certification Examinations

Candidates for Initial teacher certification must successfully complete the New York State Teacher Certification Examinations: Assessment of Teaching Skills-Written and Liberal Arts and Sciences Test. Candidates for Professional teacher certification must successfully complete the New York State Teacher Certification Examination Content Specialty Test. Full time, state-mandated teaching experience is necessary before Professional certification can be awarded. Candidates submit a videotape of a lesson to New York State Education Department for review as part of their application for the Professional Certificate.

Requirements Program

Master of Science in Education: Curriculum and Instruction Early Childhood and Childhood Education Track

Minimum requirements for admission to program without deficiencies:

Initial certification to teach early childhood, childhood, middle childhood or adolescence education in the public schools of New York State or equivalent early childhood, elementary, middle or secondary preparation.

Undergraduate GPA of 2.75 or above.

Two current (within six months) letters of recommendation.

Program Requirements

A minimum of 36 semester hours of graduate level courses, including:

General Requirements Foundations of Education EDU 570 Using Educational a. Research to Improve Instruction This course must be completed within the first 9 credit hours of graduate study One course in psychological b.

foundations For example: EDU 501 Advanced Study:

Child Psychology

EDU 502 Psychology of Adolescence

EDU 503 Evaluation in the Schools

EDU 530 Models of Reflective and Responsive Teaching

EDU 562 Infant Development and Education EDU 582 Classroom Expectancy

Effects

One course in Exceptional С 3 Education For example: EDU 508 Teaching Diverse Learners in Inclusive Settings EDU 529 Proactive Approaches to Classroom Management

d

One course in social, historical, legal 3 philosophical, or comparative foundations of education For example: EDU 531 Philosophy of Education EDU 535 School and Society EDU 539 Current Issues and Problems in Education EDU 545 History of American Education EDU 549 Comparative Education

EDU 581 Japanese Culture and Education

One course in cultural and linguistic 3 e. diversity For example: EDU 519 Curriculum Theory for the Second Language Classroom-ESL I EDU 534 Curriculum Development for the Second Language Classroom-ESL II EDU 537 Comparative Children's Literature EDU 538 Cultural Literature EDU 540 Content Area ESL EDU 563 Cultural Perspectives EDU 565 Language and Learning-Psycholinguistics/Language Acquisition EDU 566 Sociolinguistic Considerations for the Educators of ELL Students Content and Pedagogy 12

Candidates must complete at least one course in each of the core content areas of the elementary school curriculum. Course selection in this component of the Curriculum and Instruction program should address the link between content and Pedagogy.

a.	Language Arts	3
b.	Mathematics	3
c.	Science	3
d.	Social Studies	3

3-6

Electives

Hrs

15

3

3

Candidates can select one to two elective courses (depending on whether they chose to complete the Master's Thesis or the Master's Comprehensive Examination as part of program exit requirements). Any

course in the Psychological Foundations; Exceptional Children; Social, Historical, Philosophical, or Comparative Foundations; Cultural and Linguistic Diversity: and Content and Pedagogy can be used as an elective provided that the course is not used to satisfy other requirements of this program.

Capstone

EDU	670	Conducting	Education	3
		Research		
Exit	Require	ment		

EDU 690 Master's Thesis/Project 3 a. or

Master's Comprehensive 0 b. Examination

Note: The School of Education is currently reviewing the structure of the Master's Candidates Comprehensive Examination. should consult with the School of Education or the Office of the Graduate Dean for current information regarding the exit requirements

Total 36

Master of Science in Education: Curriculum and Instruction-Middle and Adolescence Education Science Track Minimum requirements for admission program without deficiencies: to

arts and sciences Completion of departmental requirements for admission to program without deficiencies.

Initial certification to teach in the public Secondary schools of New York State preparation, equivalent secondary or

Undergraduate GPA of 2.75 or above.

Two current (within six months) letters recommendation. of

Requirements Program

A minimum of 36 semester hours of graduate level courses, including:

Gen	eral Requirements	Hrs.
Fou	ndations of Education	15
a.	EDU 570 Using Educational	3
	Research to Improve Instruction	
	This course must be completed v	vithin
	the first 9 credit hours of graduate	ŧ
	study	
b.	One course in psychological	3
	foundations	
	For example:	
	EDU 501 Advanced Study: Child	
	Psychology	
	EDU 502 Psychology of Adolesce	ence
	EDU 503 Evaluation in the School	ls
	EDU 530 Models of Reflective an	d
	Responsive Teaching	

EDU 562 Infant Development and Education EDU 582 Classroom Expectancy Effects One course in Exceptional 3 C. Education For example: EDU 508 Teaching Diverse Learners in Inclusive Settings EDU 529 Proactive Approaches to Classroom Management d. One course in social, historical, legal 3 philosophical, or comparative foundations of education For example: EDU 531 Philosophy of Education EDU 535 School and Society EDU 539 Current Issues and Problems in Education EDU 545 History of American Education EDU 549 Comparative Education EDU 581 Japanese Culture and Education One course in cultural and linguistic 3 e. diversity For example: EDU 519 Curriculum Theory for the Second Language Classroom-ESL I EDU 534 Curriculum Development for the Second Language Classroom-ESL II EDU 537 Comparative Children's Literature EDU 538 Cultural Literature EDU 540 Content Area ESL EDU 563 Cultural Perspectives EDU 565 Language and Learning-Psycholinguistics/Language Acquisition EDU 566 Sociolinguistic Considerations for the Educators of ELL Students Content and Pedagogy 12 Students should note that the content and pedagogy track has been approved by New York State Education Department for the sciences. Tracks for other content areas (with the exception of English. Mathematics, and Social Studies) may be developed in the future. Candidates must complete at least one course in each of the sciences in the secondary school curriculum. Course selection in this component of the Curriculum and Instruction program should address the link between content and pedagogy. Course in Biology 3 a. b. Course in Chemistry 3 Course in Earth Science 3 C.

d. Course in Physics

Electives 3-6 Candidates can select one to two elective courses (depending on whether they chose to complete the Master's Thesis or the Master's Comprehensive Examination as part of program exit requirements). Any course in the Psychological Foundations; Exceptional Children; Social, Historical, Philosophical, or Comparative Foundations; Cultural and Linguistic Diversity; and Content and Pedagogy can be used as an elective provided that this course is not used to satisfy other requirements of this program. Capstone EDU 670 Conducting Education З Research Exit Requirement EDU 690 Master's Thesis/Project 3 a. or Master's Comprehensive b. 0

Examination Note: The School of Education is currently reviewing the structure of the Master's Comprehensive Examination. Candidates should consult with the School of Education or the Office of the Graduate Dean for current information regarding the exit requirements.

Total 36

Master of Science In Education: Secondary/Adolescence Education

3

Students should consult the departments of Biology, Chemistry, English, History, or Mathematics if they are interested in a secondary graduate program in any of these areas

Minimum requirements for admission to program:

Completion of arts and sciences requirements departmental for admission to program without deficiencies.

Initial certification to teach in the public secondary schools of New York State or equivalent secondary preparation.

Undergraduate GPA of 2.75 or above.

Two or three current (within six months) letters of recommendation. the department. Consult

Programs leading to a Master of Science in Education degree are available for adolescence educators in English, Mathematics, and Social Studies from the content departments. Each of these programs leads to Professional teaching certification

provided the candidate already possesses initial certification in the content area A minimum of 30 semester hours of graduate-level courses as follows: General Requirements Hrs for All Programs (9 semester hours in education) EDU 570 Using Educational 1 3 Research to Improve Instruction This course must be completed within the first 9 credit hours of graduate study 2. One course in psychological ٦ foundations For example: EDU 501 Advanced Study: Child Psychology EDU 502 Psychology of Adolescence EDU 503 Evaluation in the Schools EDU 530 Models of Reflective and Responsive Teaching EDU 562 Infant Development and Education EDU 582 Classroom Expectancy Effects or One course in Exceptional 3 Education For example: EDU 508 Teaching Diverse Learners in inclusive Settings EDU 529 Proactive Approaches to Classroom Management or One course in social, historical, 3 legal philosophical, or comparative foundations of education For example: EDU 531 Philosophy of Education EDU 535 School and Society EDU 539 Current Issues and Problems in Education EDU 545 History of American Education EDU 549 Comparative Education EDU 581 Japanese Culture and Education 3. Curriculum and Instruction 3 EDU 520 Curriculum Framework Theory or EDU 525 Curriculum Framework Integration 4. Area of Certification - Eighteen (18) 18 semester hours from one of the following areas: Biology*

Chemistry* Enalish * Mathematics*



Science courses are being developed for secondary and adolescence educators that focus on both science topics as well as instructional practices and assessment of student performance.

 Thesis, independent study project, 3 or research project from either professional education or the academic subject area.'

andlor

Final Examination

A two-part comprehensive examination will be required of each student - an intensive examination, either oral or written, in the areas of specialization, and an oral or written examination covering the professional component of the student's program.

Total 30

*see separate listings under each academic area of concentration.

Master of Science in Education: Literacy I

The program leads to initial certification in Literacy, birth to grade 6.

Minimum requirements for admission to program without deficiencies:

Initial certification to teach early childhood, childhood or adolescence education in the public schools of New York State or equivalent early childhood, elementary, or secondary preparation. Undergraduate GPA of 2.75 or above.

Two current (within six months) letters of recommendation.

Program Requirements

Students should note that the Literacy I Program is being revised and will be reviewed by New York State Education Department by the end of the Spring 2003 semester. Interested persons should contact the School of Education or the Office of the Graduate Dean for information regarding current requirements.

A minimum of 36 semester hours of graduate level courses, including:

General Requirements

- 1. Foundations of Education
 - EDU 570 Using Educational Research to Improve Instruction This course must be completed within the first 9 credit hours of graduate study.

Hrs.

15

3

3

3

3

3

6-9

- b. EDU 506 Introduction to Literacy Learning
- C. a course in the psychology of literacy
- d. a course in the social foundations of literacy
- e. a course in individualized literacy instruction
- 2. Literacy Courses

Candidates can select 2 to 3 literacy courses addressing primary and elementary students (depending on whether they select to complete the Master's Thesis or the Master's Comprehensive Examination as part of program exit requirements). Selection of these courses should occur after consultation with a faculty advisor in the Literacy I Program. Literacy courses may be used to fulfill this category, provided that these courses are not used to satisfy other requirements of the Literacy I program.

- Clinical Courses 9

 a. a course in classroom assessment and treatment of literacy difficulties
 - b. a course in clinical diagnosis of literacy difficulties
 - c. a course in remediatian of reading difficulties
- Practicum 3 A clinical practicum, involving K-6 clients
- 5. Capstone 0-3 a. Master's Thesis/Project in 3 Literacy
 - or b. Master's Comprehensive 0 Examination

Note: The School of Education is currently reviewing the structure of the Master's Comprehensive Examination. Candidates should consult with the School of Education or the Office of the Graduate Dean for current information regarding the exit requirements.

Total 36

Master of Science in Education: Literacy II

This program leads to initial certification in Literacy, grades 5-12.

Minimum requirements for admission to program without deficiencies:

Initial certification to teach early childhood, childhood or adolescence education in the public schools of New York State or equivalent early childhood, elementary, or secondary preparation.

Undergraduate GPA of 2.75 or above.

Two current (within six months) letters of recommendation.

Program Requirements

Please note that the Literacy II Program is being revised and will be reviewed by New York State Education Department by the end of the Spring 2003 semester. Students should contact the School of Education or the Office of the Graduate Dean for information regarding current requirements.

A minimum of 36 semester hours of graduate level courses, including:

Hrs.

3

3

3

3

9

0

General Requirements

- Foundations of Education 1.
 - 15 a. EDU 570 Using Educational 3 Research to Improve Instruction This course must be completed within the first 9 credit hours of araduate study.
 - EDU 506 Introduction to Literacy Learning
 - c. a course in the psychology of literacy
 - d. a course in the social foundations of literacy e.
 - a course in individualized literacy instruction

Literacy Courses 6-9 2. Candidates can select two to three literacy courses addressing intermediate, middle and high school students (depending on whether they chose to complete the Master's Thesis or the Master's Comprehensive Examination as part of program exit requirements). Selection of these courses should occur after consultation with a faculty advisor within the Literacy II Program. Literacy courses may be used to fulfill this component provided that these courses are not used to satisfy other requirements of the Literacy II program.

- 3. Clinical Courses
 - a. a course in classroom assessment and treatment of literacy difficulties
 - b. a course in clinical diagnosis of literacy difficulties
 - C. a course in remediation of reading difficulties
- 4. Practicum 3 a clinical practicum, involving clients, grades 6 through 12
- 5. Capstone 0 - 3Master's Thesis/Project in 3 a. Literacy nr
 - Master's Comprehensive b. Examination

Note: The School of Education is currently reviewing the structure of the Master's Comprehensive Examination. Candidates should consult with the School of Education or the Office of the Graduate Dean for current information regarding the exit requirements.

Total 36

Master of Science in Education: Teaching English Speakers to of Other (TESOL) Languages and New York State Education Department certification in TESOL K-12

The program leads to initial and/or professional certification in TESOL K-12, depending upon the credential(s) with which the candidate enters this program.

Admission criteria to All TESOL programs:

- Completion of a baccalaureate degree in an area of arts or science.
- Undergraduate GPA of 2.75 or higher, as demonstrated on official transcripts; candidates who have completed a master's degree must provide copies of official transcripts for undergraduate and graduate work completed.
- Two current (within six months) letters of recommendation.
- All candidates must have the equivalent of 12 credit hours of a "foreign" language (e.g., Language Other Than English (LOTE) except for candidates who are native speakers of a language other than English (proof of literacy required).
- All candidates, regardless of native language, must write a satisfactory 200-word essay in English that will be evaluated by the School of Education.
- All candidates, including native speakers of English and native speakers of a language other than English, must meet language proficiency requirements by the deadlines provided (see below). Failure to do so will result in removal from the program. (Candidates may apply to other master's programs at the college, if they so qualify).

Language Proficiency Requirement for TESOL candidates All

Native Speakers of English 1. Candidates must demonstrate a. literacy in English by writing a graduate level 200-word essay.

- b. Candidates must complete the equivalent of 12 credit hours in a Language Other Than English (LOTE). This requirement can be satisfied by passing the New York State Regents LOTE exam earning a score of 85 percent or higher, scoring at the 50th percentile on the CLEP examination and completing 6 credit hours of undergraduate or graduate study of a LOŤE.
- Completion of a satisfactory intermediate 100-word essay in the С LOTE. Candidates can be accepted conditionally into the TESOL Program without the LOTE essay. Conditionally accepted candidates can complete 12 credit hours in the TESOL program before they are required to write the Satisfactory 100-word essay in the LOTE. Matriculation into the TESOL Program is contingent upon the satisfactory evaluation of this essay.
- 2. Non-native Speakers of English
 - a. Candidates must demonstrate literacy in English by writing a graduate level 200-word essay in English, appropriate to second language speakers of English.
 - The 3 credit-hour requirement for New York State for the Language Other Than English (LOTE) is waived.
 - Candidates must demonstrate C. literacy in their native language(s) by writing a graduate level 200-word essay in the native language and providing a notarized "Affidavit of Native Language."

There are three (3) tracks for the TESOL program, based on the qualifications. candidate's as follows:

- Candidates who have a master's 1. degree and who have initial/provisional or professional/Ipermanent certification in an approved area may choose to complete the 36 credit hour program and receive a second master's degree (36-credit-hour program) or the Professional Certificate (24-credit-hour program). The programs are described below
- 2. Candidates who have a baccalaureate degree and who have initial/provisional certification in an approved area. These candidates must complete the 36-credit-hour M.S. TESOL and N.Y.S. Certification K-12.
- Candidates who have a baccalaureate 3. degree or a master's degree in an area of Liberal Arts or Natural Sciences (for example, English, Modem Languages, Mathematics, Biology, Chemistry, Physics,

Geosciences, Philosophy, Music, Art, Sociology, History, Political Science) and who do not have teacher's certification of any type. The School of Education will recommend eligibility and final approval is granted by the Dean of Graduate Studies. These candidates must complete the 36 credit hour M.S. TESOL and N.Y.S. Certification K-12 and must complete the following courses or requirements at either the undergraduate or graduate level, by advisement:

- a. EDU 225 Developmental 3 Psychology or EDU 224 Adolescent Psychology or EDU 501 Advanced Study: Child Psychology or EDU 502 Psychology of Adolescence
- b. EDU 250 and EDU 251 The Exceptional Learner or equivalent graduate course to be approved by the Director of the School of Education.
- C. EDU 349 Educational Psychology or equivalent graduate course to be approved by the Director of the School of Education.
- d. Child Abuse Workshop This workshop is integrated into the Developmental Psychology and Educational Psychology courses, if completed at Fredonia.
- e.. SAVE certificate
- HLTH 300 Education in f. Drugs/Alcohol/Tobacco
- Fingerprinting requirement. h. Completion of the LAST and ATS-W and other pertinent New York State examinations for New York State certification.
- i. Meet any and all existing requirements as mandated the New York State Education Department and NCATE.

Progr	am	Requirements Hrs.	
to in	nprove	Using Educational Research Instruction	3
		e must be completed within hours of graduate study	
	519	Curriculum Theory for the Second Language	3
EDU	534	Classroom-ESL I Curriculum Development for the Second Language Classroom-ESL II	3
EDU	538	Cultural Literature	3
EDU	540	Content Area ESL	3
EDU	563	Cultural Perspectives or	3
	504	elective	~
EDU	564	Linguistic Considerations for ELL Students	3
EDU	565	Language and Learning-Psycholinguistics Language Acquisition	
		or	3
EDU	566	Sociolinguistic	
EDU	568	Considerations for the Educators of ELL Students Foundations of Bilingual Education	3

Elective

3

3

1

Candidates can select an elective course. Any course in the Psychological Foundations; Exceptional Children; Social, Historical, Philosophical, or Comparative Foundations; Cultural and Linguistic Diversity; and Content and Pedagogy as well as LOTE can be used as an elective if the course is not used to satisfy other requirements of this program.

- EDU 571 Practicum and Seminar 3 EDU 690 Capstone Research 3 Project/Thesis Total 36
- Professional Certificate Program: Teaching English to Speakers of Other Languages (TESOL) K-12 The Professional Certificate in TESOL

is available for candidates who already provisional possess initial, or Permanent certification and already have completed a master's degree. The certificate leads to certification in TESOL K-12 after the completion of 24 credit hours.

Certificate 1	Requirements	Hrs.
EDU 519	Curriculum Theory for the Second Language Classroom-ESL I	3
EDU 534	Curriculum Development for the Second Language Classroom-ESL II	3
EDU 538	Cultural Literature	
	or	3
EDU 563	Cultural Perspectives	
EDU 540	Content Area ESL	3
EDU 564	Linguistic Considerations for ELL Students	3
EDU 565	Languageand Learning-Psycholinguistics Language Acquisition	
	or	3
EDU 566	Sociolinguistic Considerations for the Educators of ELL Student	c
EDU 568	Foundations of Bilingual Education	3
EDU 571	Practicum and Seminar Total	3 24

PROGRAM

95

GRADUATE

THE

3

Candidates must also complete the appropriate New York State Teacher examinations as well as the Child Abuse Workshop (if necessary) and the SAVE workshop. In addition, all candidates for certification will comply with New York State Education Department fingerprinting regulations.

Certificate	of	Advanced		Study:
School	Adminis	trator	and	
Supervisor				

Students Should Be Advised: The New York State Department of Education has drafted new guidelines for the Certificate of Advanced Study in Administrator and School Supervisor. The School Of Education anticipates

submitting to New York State Education Department an Education Leadership Program during the Fall Candidates 2003 semester. interested in this program should contact the School of Education or Office of the Dean of Graduate Studies for updated admission criteria and program description as well as program that requirements. Please be advised the proposed title of the certificate is Certificate of Advanced Study: Education Leadership.

ENGLISH

Office: 277 Fenton Hall (716) 673-3125 E-mail: English.Department@fredonia.edu

The graduate program in English provides students the opportunity to study language and literature represented in various cultures and media. The program emphasizes the importance of "learning how to learn" rather than becoming only storehouses of information. Equally important is the objective of offering potential and practicing teachers the opportunity to refine, discover or change their own approaches to the teaching of language and literacy.

Master of Arts

Departmental Requirements for Admission to the Degree Program

- The deadlines for "Completed Applications" conform to college policy that identifies April 1 for admission in the summer and fall semesters and November 1 for admission in the spring semester.
- 2. "Completed Applications" must include:
 - A. Transcript(s) of prior college performance. A GPA of 3.0 in the major is preferred. Applicants who do not meet this GPA requirement may be admitted conditionally by permission of the chairperson
 - B. At least two letters attesting to the candidate's breadth of preparation and quality of performance in an undergraduate English major or equivalent and, if applicable, a letter from a school administrator indicating employment as a teacher of English.
 - C. A personal statement.
- 3. If a student applying to the program has not completed an English degree (e.g., an applicant with a degree in History), the applicant must take or have taken the equivalent of a minor in English. The Chair of the English Department will review the scope and content of these courses to determine if any additional preparation or course work will be required prior to an applicant's

acceptance as a candidate for a master's degree. The applicant is required to maintain, or have maintained an overall GPA of 3.0 in these courses.

- Students admitted to the program are assigned advisors and are responsible for conferring with their advisors to insure they are meeting program requirements.
- 5. Recommended preparation for graduate studies in English includes course work related to World literature(s), an author in depth, a literary period, and criticism and theory. Students who have completed an undergraduate English degree before 1995 might consider auditing a literary criticism and theory course in the department, or familiarizing themselves with recent theoretical developments in the field. Useful anthologies are listed on our website,www.fredonia.edu/ department/english/.

Requirements for Admission to Graduate-level Courses

- Admission to graduate courses in English for approved, non-degree graduate students may be granted on a "space available" basis.
 Priority will be given to students who have already been admitted to graduate studies in English and are already enrolled in a graduate English course at Fredonia.
- All others will be admitted to graduate courses depending on their preparation and as space permits.
- With permission of the instructor, and the approval of the English Chairperson and the Graduate Dean, qualified undergraduates may take 500-level graduate courses in accordance with the stated rules provided in the college catalog and as space permits.

Program Requirements

- I. A minimum of 30 hours of graduate level courses, including:
 - A. ENGL 51 0,512,s 4, and 516 or 518 (12 credit hours) and

B. Either 1) or 2) below: (6 credit hours)

> 1. Six (6) additional credit hours chosen from English courses numbered 510,512, 514, and 516,518 or 520.

2. ENGL 690 and 691 (Thesis Research I and II) and an oral defense of the thesis. ENGL 691 must be the final 3 credit hours taken among the 30 hours required.

- C. Twelve (12) additional credit hours of course work in English chosen in consultation with the student's faculty advisor. These may be selected from core requirements, ENGL 520, ENGL 580, or independent studies.
- D. With the approval of the chairperson of the Department of English, the student may use up to 6 credit hours of graduate-level work in related fields to complete the 30-hour requirement.
- II. Portfolio Requirement. A completed portfolio must be approved by the English advisor prior to approval of degree. A description of portfolio requirements is available in English department office.

Master of Science in Education: English 7-12

Departmental Requirements for Admission to the Degree Program

- The deadlines for "Completed Applications" conform to college policy that identifies April 1 for admission in the summer and fall semesters and November 1 for admission in the spring semester.
- "Completed Applications" must include transcript(s) of prior college performance, at least two letters attesting to the candidate's breadth of preparation and quality of performance in an undergraduate English major or equivalent, and, if applicable, a letter from a school administrator indicating employment as a teacher of English.

- Initial certification to teach English 3. in the secondary schools of New York State, or equivalent preparation, for those seeking professional certification. Applicants need an undergraduate GPA of 2.75 or above
- 4 Students admitted to the program will be assigned advisors and are responsible for conferring with their advisors to insure they are meeting program requirements.

Program Requirements:

30 credit hours of graduate-level work, including:

- 1. 9 credit hours, as follows:
 - Α. EDU 570 Understanding Educational Research (3 credit hours)
 - One EDU course in В. psychological, social, historical, philosophical, or comparative foundations of education (3 credit hours)
 - C. One EDU course in pedagogy, methodology, curriculum, or instruction (3 credit hours)
- Twenty-one (21) credit hours in 2. English as indicated below.
 - ENGL 510, 512, 514, and Α. 516 (12 credit hours)
 - Β. ENGL 554 and ENGL 655 (6 credit hours)
 - C. Three (3) additional graduate credit hours of English
- A project, approved by the 3. student's faculty advisory committee and begun after the student has completed 15 credit hours of course work. The project should focus on the teaching of literature and/or writing.

GEOSCIENCES

Office: 106 Houghton Hall (716) 673-3303 È-mail:Geosciences.Department@fredonia.edu John L. Berkley, Chairperson

The Department of Geosciences offers graduate courses on an individualized basis in advanced geosciences projects, independent studies and independent research. Students interested in taking any of these courses should contact the department for information and approval prior to enrollment.

HISTORY

Office: E332 Thompson Hall (716) 673-3277 E-mail: History.Department@fredonia.edu Ellen Litwicki, Chairperson

The Master of Science in Education, Social Studies Adolescence is a program for those holding the initial or provisional certification in secondary and/or adolescence social studies who are seeking to fulfill the graduate education requirements for professional or permanent certification. Because of the heavy emphasis on both United States and Global history in the New York State secondary social studies curriculum, the program requires significant course work in U.S. and Global history. Applicants who have fewer than 21 undergraduate hours in history may be required to supplement their undergraduate course work before admission to the program. Candidates for the Master of Science in Education. Social Studies Adolescence will be required to complete a capstone project, the creation of comprehensive curricular materials relating to a specific topic. Candidates will develop these materials in consultation with an advisor in the history department.

Master of Science in Education: Adolescence Social Studies

Requirements for Admission to the Program without Deficiencies:

Initial or Provisional Certification in 1. Secondary andlor Adolescence Social Studies Education.

2. Twenty-seven (27) undergraduate credit hours in the social sciences, with 21 of those credit hours in history.

- At least a 2.75 grade point 3. average in all undergraduate courses (once accepted into the program, candidates must maintain a 3.0 GPA to remain in the program).
- Satisfactory scores on the general 4. aptitude sections of the Graduate Record Examination.

Applicants who fail to meet all the requirements may be considered for provisional admission to the program.

Program Requirements:		
History.		
HIST 623	Readings in World History	<i>'</i> 4
HIST 633	Research Seminar in World History	4
HIST 643	Readings in American History	4
HIST 653	Research Seminar in American History	4
HIST 670	Curriculum Development Project	4
	Total:	20
Education:		
EDU 570	Understanding Educational Research	3
One course	in psychological	3
foundations	or exceptional education:	
EDU 502	Psychology of Adolescence	
EDU 503	Evaluation in the Schools	
EDU 530	Learning Theories and the Teaching Process)
EDU 504	The Exceptional Learner	
EDU 508	Mainstreaming	
EDU 543	Education of the Gifted	
	and Talented	
EDU 529	Behavioral Disorders in School Children	
One course	in social, historical, legal,	3
philosophica	l, or comparative	
foundations:		
EDU 531	Philosophy of Education	
EDU 535	School and Society	
EDU 539	Current Issues and	
	Problems in Education	
EDU 545	History of American	
EDU 549	Education Comparative Education	
Political Scie Any twoo	ence: f the following courses:	
POLI 520	Seminar in American	6
	Politics	
	Seminar in Comparative Politics	
POLI 1550	Seminar in International Politics	
POLI 560	Seminar in Political Theory	,
POLI 570	Seminar in Law and	,
	Judiciary	
POLI 580	Seminar in Public Policy Total	35

INTERDISCIPLINARY STUDIES

Graduate Office: **810** Maytum Hall (716) 673-3808 E-mail: Interdis@fredonia.edu Joan A. Burke, *Interim Graduate Dean*

Graduate study in Interdisciplinary Studies leads to the completion of Master of Arts and Master of Science degree programs. These individually created degree programs are designed specifically for highly motivated, self-directed students whose personal, educational or career goals require programs that are not found within the traditional boundaries of master's requirements in a specific discipline.

Along with the submission of all materials required for a full graduate application packet, applicants for course work and/or degree programs in Interdisciplinary Studies must complete a separate two-part proposal form available in the Graduate Office. Part I of this form requests a general outline of the proposed program; Part Il requests both a program title and a list of courses that will constitute the entire 30-credit-hour program. Applicants for degree-status upon admission must complete both Parts 1 and 2. Until both Part I and Part 2 are submitted and approved by a graduate advisor, graduate students may be admitted into Interdisciplinary Studies as non-degree students. Non-degree students must have a degree proposal accepted and approved by a graduate advisor and the Graduate Dean prior to the completion of 9 graduate credit hours.

Students must select course work from at least two academic disciplines for this degree program. Normally, no more than 15 credit hours of the required course work may be taken in a single department. Because student programs are individually designed, the culminating research effort, a topic or project explored in depth as part of INDS 690, is tailored to integrate the previous learning with professional and personal goals. This concentrated study can follow the traditional research pattern or can embody more innovative forms and methods. In any case, the completed project must demonstrate growth in skills, knowledge, and/or vision. All work on Interdisciplinary Studies proposals must be coordinated by the Graduate

Dean, with whom proposals are initiated and in whom resides the final authority for approval.

Additional information and program planning assistance is available through the office of the Graduate Dean.

MATHEMATICS

Office: 223 Fenton Hall (716) 673-3243 E-mail:Mathematics.Dem@M.edu H.Joseph Straight, *Chairperson*

Requirements for Admission to the Program without Deficiencies:

Initial certification in New York State in Adolescence Education -Mathematics, with a bachelor's degree in mathematics that includes courses equivalent to MATH 210, 223, 323, 331, and at least two of MATH 341, STAT 350, and MATH 381.

or

Initial certification in New York State in Middle Childhood Education -Mathematics Specialist, with a bachelor's degree in mathematics that includes courses equivalent to MATH 123, 201, 202, 210, 231, 301, 341, 381, and a statistics course.

Requirements for the Master of Science in Education Degree in Mathematics

The program requires a minimum of 30 credit hours at the graduate level distributed as follows:

- 1. A course in research methods
- 2. One course from each of three of the following categories:

a) historical, philosophical, or comparative foundations of education

b) design and evaluation of mathematics curricula

c) instructional methods

d) use of educational technology in the teaching and learning of mathematics

e) psychological foundations of education

3. One course from each of four of the following categories:

- a) algebra or analysis
- b) geometry or topology
- c) number theory, probability, or statistics
- d) history or philosophy of mathematics
- e) applications of mathematics

f) any approved course in mathematics

- 4. MATH 602 Mathematics Education Seminar
- 5. MATH 690 Graduate Project

The student's advisor or the department chair must approve any course used to fulfill the above requirements.

MODERN LANGUAGES AND LITERATURES

Office: 2113 Fenton Hall (716) 673-3380 E-mail: Modern.Languages@fredonia.edu Howard B. Wescott, Chairperson

The Department of Modern Languages and Literatures offers graduate courses on an individualized basis in special topics and directed studies in Spanish and French. Students interested in taking any of these courses should contact the department for information and approval prior to enrollment.

MUSIC

Office: 1004 Mason Hall (716) 673-3151 E-mail: Music.School@fredonia.edu Peter J. Schoenbach, Director Wade Weast, Associate Director Barry Kilpatrick, Assistant Director

Master of Music

Requirements for admission to music programs without deficiencies.

The completion of a baccalaureate degree in Music at an accredited four-year institution.

Applicants in music education must have had undergraduate studies equivalent to the Bachelor of Music or Music Education degree offered at SUNY Fredonia. A performance audition is not necessary for admission to the Master of Music in Music Education degree program. However, students in the Music Education degree program who desire to do a performance project must audition for and be accepted by the appropriate applied music faculty at the time of application and not later than 6 to 12 hours into the program. For the Masters of Music in Music Education, a minimum of 3.0 GPA is preferred. Applicants who do not meet these requirements may be admitted conditionally by permission of the Director of the School of Music.

Applicants seeking the Master of Music in Performance degree must audition for and be accepted by the appropriate applied music faculty.

Applicants seeking the Master of Music in Theory-Composition degree must have had undergraduate studies in music equivalent to a Bachelor of Music degree with a major in theory or composition, or any other undergraduate music degree which includes four semesters of music theory (equivalent to SUNY Fredonia's MUS 121-122, 123-124, 221-222, 223-224), a music history survey (equivalent to MUS 263 and 264), and advanced undergraduate courses in theory, composition, orchestration, counterpoint, or music history totaling at least 12 semester hours. The degree program is structured so that the student may place emphasis on either theory or composition. Those who wish to follow the theory emphasis must present evidence of previous analytical work; those who wish to pursue the composition

emphasis must present a representative selection of compositions for evaluation. All applicants, therefore, are subject to approval by the theory-composition faculty.

Each graduate student must complete the Core Curriculum of required studies common to every Master of Music degree program. The two courses in the core are:

MUS 521Music BibliographyMUS 624Analytic Techniques

3

3

The following section lists additional requirements for each degree program as accredited by the National Association of Schools of Music.

Master of Music in Music Education

Final Project Program

This program leads to one of three Final Project options: Thesis, Composition/Arrangement, or Performance Recital. Prior approval must be obtained from the performance faculty or Music Education committee for students wishing to exercise this option. This program is designed to prepare a student for further graduate study and/or to refine a specific area of interest or competence. This program leads to the academic qualifications required for Professional Certification in New York State.

Program Requirements	Hrs.
Core Curriculum	6
Music Education and Related Course	Work
MUED 619 Foundations of Music	3
Education I	
MUED 620 Foundations of Music	3
Education II	
MUED 621 Foundations of Music	3
Education III	
Music Education or Music	3
Education-related course work, by	
advisement (MUED)	
Course work in theory, history,	3
literature, performance	
Elective course work by advisement	6
Individualized selection of course work	< in

theory, history, literature, performance and special studies (MUS/MUED 590-591). Course work outside of music may be acceptable, subject to the establishing of a clear relationship to the candidate's professional goals. Short "workshops" (MUED 555/566) can be applied only in this category.

Final Project MUED 695 Thesis/Final Project 3 Total 3

General Requirements

- At least 12 credit hours for the overall program should be in music education and music education-related course work.
- At least 9 credit hours for the overall program should be in course work dealing with music theory, history, literature, analysis, or performance.



- At least 15 credit hours of the overall program should be in course work at the 600 level.
- For more detailed information about program requirements, the candidate is referred to the Policies and Practices for Master of Music Degree Candidates available from the School of Music off ice.

In-Service Program

This program provides the graduate student who is a teacher a greater range of courses other than the often more specialized concentration of the Final Project program. In recognition of the individual differences among teachers, their teaching positions, and thus of their particular needs, this program allows maximum flexibility with a broad, yet balanced selection of choices. Upon completion of program, students are recommended for Professional Certification (pending approval). This program leads to the academic qualifications required for Professional Certification in New York State.

Program Requirements	lrs.	
Core Curriculum	6	
Music Education and Related Course	Work	
MUED 619 Foundations of Music Education I	3	
MUED 620 Foundations of Music Education II	3	
MUED 621 Foundations of Music Education III	3	
Music Education and/or Music 6 Education-related courses, by advisement (MUED or MUS)		
Course work in theory, history, literature, performance	6	
Elective course work by advisement	9	

Individualized selection of course work in theory, history, literature, performance and special studies (MUS/MUED 590-591). Course work outside of music is also acceptable subject to the establishing of a clear relationship to the candidate's personal growth and professional competence. Short "workshops" (MUED 555/556) can be applied only to this category and require prior permission of the program advisor.

General Requirements

1. At least 15 credit hours of the overall program should be in



music education and music education related course work.

- At least 12 credit hours of the overall program should be in course work dealing with music theory, history, literature, analysis, or performance.
- At least 18 credit hours of the overall program should be in course work at the 600 level.
- For more detailed information about program requirements, the candidate is referred to the Policies and Practices for Master of Music Degree Candidates available from the School of Music office.

Master of Music in Performance

A student working toward a Master of Music in Performance must select one of the two performance tracks: 1) Orchestral Instruments and Conducting, or 2) Voice. Each track requires the core curriculum as well as specific requirements listed below.

Orchestral Instruments and Conducting

36

Program Requirements Hrs. Core Curriculum 6 1. A minimum of 30 semester hours of graduate level courses, with a minimum of 15 credit hours at the 600 level, including:

•	
Studio instruction, MUS 692-693 MUS 694 Recital	6 3
Music history, literature, or theory course related to the performance area	3
Music history	3
Music theory	3
Elective courses in supporting areas of arts and sciences, professional education, music, or music education	6
Two semesters of ensemble participation (by advisement)	0
Final Comprehensive Oral Examination	0

Total 30

Voice

2.

3.

Program Requirements

1.	A minimum of 34 credit hours of graduate level courses, with at least 15 credit hours at the 600 level, including:	
	a. Core Curriculum Applied Music: MUS 592 and 593	6
	Graduate Performance Major MUS 692 and 693	6
	Graduate Performance Major	6
	Graduate Diction	3
	Music History or Theory (by advisement)	3

b. Electives: To complete the degree program, students will elect Plan A or Plan B with approval of graduate advisor from the School of Music.

Plan A: Minimum of 10 credit 10 hours of major elective courses within the School of Music. Elective courses in Theory, History and Literature, opera workshop and supporting areas of arts and sciences related to performance.

Plan B: Minimum of 4 credit 10 hours of major elective courses within the School of Music and minimum of 6 credit hours outside the major or outside the department. Electives may include courses of special interest such as, but not limited to, opera craft, stage direction, language, literature, vocal pedagogy/speech pathology with approval of graduate music advisor.

- Two semesters of ensemble participation (by advisement)
 Two public performances
- Final Comprehensive Oral Examination

Total 34

Hrs.

6

0

0

0

Master of Music in

Theory-Composition

Program Requirements

Core Curriculum

2.

З.

 A minimum of 30 semester hours of graduate-level courses, with a minimum of 15 hours at the 600 level, including:

For Concentration in Theory

Theory and composition courses, in which Pedagogy of Theory MUS 650 must be included	6
Thesis (theory project) or	3
For Concentration in Composition Theory and composition courses, which must include two semesters (6 credit hours) of composition	6
Thesis (large-scale composition)	3
Music history and studio instruction Elective courses in supporting areas of the fine arts, arts and sciences, professional education,	9 6
music, or music education Two semesters of ensemble participation (by advisement)	0
Final Comprehensive Oral Examination	0
Examination	

Total

PHYSICS

Off ice: 118 Houghton Hall (716) 673-3301 E-mail: Physics.Department@fredonia.edu Michael P. Grady, Chairperson

The Department of Physics offers graduate courses on an occasional basis in kinetic theory and statistical mechanics. mathematical physics, electromagnetic theory, modern optics. advanced dynamics, quantum reactor physics, advanced mechanics. nuclear physics, atomic and molecular structure, and special topics. Students interested in taking any of these courses should contact the department for information and approval prior to enrollment.

PSYCHOLOGY

Off ice: W357 Thompson Hall (716) 673-3129 E-mail: Psychology.Department@fredonia.edu Jack Croxton, Chairperson

The Department of Psychology offers graduate courses on an occasional basis in contemporary issues and independent studies in psychology. Students interested in taking these courses should contact the department for information and approval prior to enrollment.

SOCIOLOGY/ ANTHROPOLOGY/ SOCAL WORK/ CRIMINAL JUSTICE

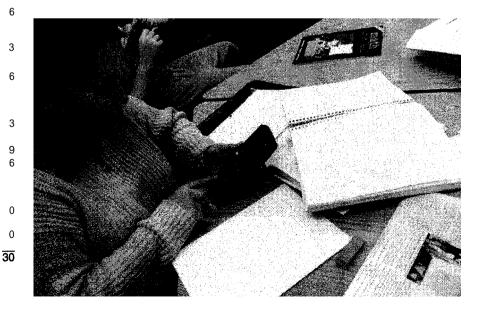
Office: W363 Thompson Hall (71 6) 673-3205 E-mail:SociologyAnthropology@fredonia.edu Alan LaFlamme, *Chairperson*

The Department of Sociology/Anthropology/Social Work and Criminal Justice offers graduate courses on an individualized basis in directed studies in Sociology and Anthropology. Students interested in taking these courses should contact the department for information and approval prior to enrollment.

SPEECH PATHOLOGY AND AUDIOLOGY

Office: W121 Thompson Hall (716) 673-3202 E-mail: SpeechPathology.Audiology@fredonia.edu Bridget Russell, *Chairperson*

The graduate program in Speech Pathology and Audiology is designed to enable students to: (1) earn a Master of Science degree, (2) meet New York State Department of Education academic requirements for permanent certification in the



education of the Speech and Hearing Handicapped for those having provisional certificates or certificates of qualification, (3) meet New York State Department of Education academic requirements for licensure in Speech Pathology or Audiology, and (4) meet American Speech and Hearing Association academic and practicum requirements for the Certificate for Clinical Competency in Speech-Language Pathology or Audiology.

The deadline for application is November 1 for admission beginning in the spring semester, and February 1 for admission in the following summer and fall semester.

Master of Science in Speech Pathology or Master of Science in Education, Teacher of the Speech and Hearing Handicapped

For admission to the program without deficiencies, an applicant must have: a bachelor's degree from an accredited institution; completed a minimum of 15 credit hours in courses related to the normal development of speechlanguage-hearing and/or the sciences related to the use of speech, language and hearing; 9 credit hours in speech-language pathology; and 6 credit hours in audiology. A minimum of 3.0 GPA is preferred. Applicants who do not meet these requirements may be admitted conditionally by permission of the chairperson. A minimum of 18 semester hours in

speech pathology and audiology or permission of the chairperson is required for admission to all graduate courses.

Note: A minimum of 375 clock hours of supervised clinical practice is required for graduation, of which at least 250 hours must in the major area - speech pathology or audiology - and at the graduate level.

Program Requirements

Hrs

3

3

6

3

3

3

- A minimum of 39 semester hours in speech-language pathology/audiology courses, including:

 A minimum of 21 credit hours in speech-language pathology
 - or

(2) A minimum of 21 credit hours in audiology.

Core courses required for all graduate students by advisement (exceptions by permission of chairperson):

SPA 502	Clinical Practice, Communicative Disorders
SPA 550	Advanced Audiology (audiology emphasis only)
SPA 605	Advanced Clinical Methods & Practice
SPA 606	Research Design in Speech Pathology and Audiology or equivalent
SPA 620	Diagnostic Theories and Practices
SPA 603	Neuropathologies of Speech & Language or
SPA 630	Assistive Listening*

Remaining hours in speech pathology and audiology as advised.

 b. Final Comprehensive Examination (Plan I) or Thesis (Plan II) or Directed Study Research Option (Plan III) Total 39
 *Audiology Emphasis

THEATRE AND DANCE

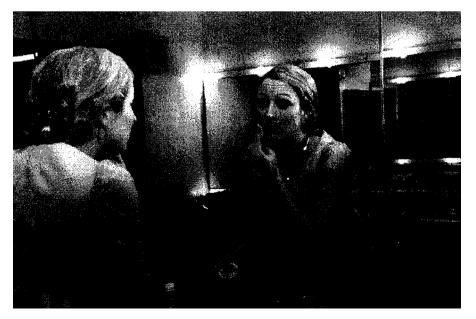
Office: 209 Rockefeller Arts Center (716) 673-3596 E-mail: Theatro.Arts@Bfredonia.edu; Dance.Program@fredonia.edu James Ivey, Chairperson

The Department of Theatre and Dance offers graduate courses on an individualized basis in selected Theatre Arts studies and practicum in dance. Students interested in taking these courses should contact the department for information and approval prior to enrollment.

VISUAL ARTS AND NEW MEDIA

- Office: 217 Rockefeller Arts Center (716) 673-3537
- E-mail:VisualArts.Newmedia@fredonia.edu Thomas W. Loughlin, Chairperson

The Department of Visual Arts and New Media offers graduate courses on an individualized basis in art history independent research, seminar in art history and criticism, and independent studio work. Students interested in taking any of these courses should contact the department for information and approval prior to enrollment.



The College's History

SUNY Fredonia joined the newly-formed State University of New York System in 1948 as one of the 11 teacher's colleges within the university and in 1961 became the State University of New York College at Fredonia with an expanded mission. Its history dates back to its roots as the Fredonia Academy, established in 1826 by the citizens of Fredonia. In 1867 it was named one of the new State Normal Schools.

The Campus

The 249-acre campus of SUNY Fredonia is striking in its beauty. A traditional brick perimeter encloses a modern sculptured core. Well-kept lawns and wooded areas enhance the beauty of the campus. Facilities on the college campus reflect its diversity and reputation for excellence.



There area 13 residence halls on the SUNY Fredonia campus, including corridor and suite-style, as well as apartments. In addition, several lifestyle options are available including residence halls with a Wellness Center and an Aerobics Center, computer labs in some residence halls, and Ethernet access in every room. In addition, all residence halls have electronic entry access for added safety and security. Hendrix Hall is also the site of the student-operated television station, WNYF-TV. Residence life offers the added advantage of activities planned by students. Cranston Hall and Erie Hall are the main dining facilities, supplemented by the Williams Center food services, and cafes in selected buildings. Gregory Hall, the first residence hall on the present campus, was named in honor of former college president Dr. Leslie R. Gregory, and also is the home of the Office of Residence Life, the Faculty Student Association, Career Development Office, and University Police.

The Williams Center, a circular building appropriately situated at the center of campus, houses the office of Campus Life and the Student Association, and several major student organizations including the student newspaper, The Leader. It also contains a variety of dining options, the campus bookstore, meeting, activity and recreation spaces, a lounge, and the Central Box Office. Dods Hall, one of two athletic facilities, contains classrooms, gymnasia, the Blue Devil Fitness Center, a dance studio, and racquetball courts. Outside are lighted tennis and basketball courts. Adjacent to Dods is Steele Hall, which contains an indoor ice skating rink, track/basketball arena, and the college's new natatorium/swimming and diving facility that opened in Spring 2002.

Enhancing student and community life is the Michael C. Rockefeller Arts Center, a magnificent performing and visual arts facility. In addition to classrooms, the facility contains the 1,200-seat King Concert Hall, the 400-seat Marvel Theatre, and Bartlett Theatre, and two art galleries.

LoGrasso Hall is the home of the Student Health Center, the Counseling Center, Internship Programs, and the Office of Lifelong Learning, International Programs, and Economic Research and Development. McEwen Hall includes lecture halls, classrooms, a television studio and Fredonia Radio Systems. Reed Library, named in honor of Daniel A. Reed of Sheridan, contains nearly 400,000 volumes, more than 11,000 journals, and collections of microforms and videotapes. The music library houses more than 15,000 sound recordings and over 30,000 musical scores and performance parts. The library also holds special collections, the college archives, and is the home of the college's Learning Center and Office of Disability Support Services for Students. A library addition and renovation project was completed in 1994.

Maytum Hall is the home of administrative and business offices as well as the Office of the Registrar, Student Affairs, Student Accounts, the Academic Advising Center, and Administrative Information Technology.

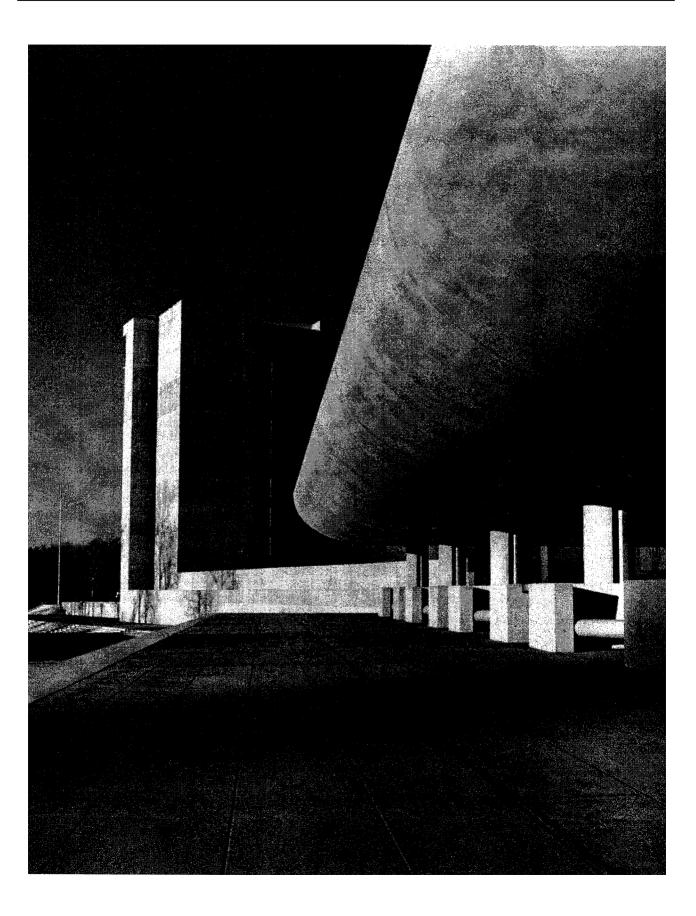
Fenton Hall, named in honor of Reuben Fenton, governor of New York State from 1865-1868, former congressman and U.S. Senator, who attended the Fredonia Academy, is the main humanities and mathematics and computer science office and classroom building. The College President's office is also located in this building. Jewett Hall and Houghton Hall are the natural and physical sciences buildings containing classrooms and laboratories, and offices for the departments of Biology, Chemistry, Geosciences and Physics. Thompson Hall, the largest academic structure on campus, was opened in the summer of 1973. In addition to the social science departments, the School of Education, the School of Business, the Office of Grants Administration/Research Services, the Henry C. Youngerman Center for Communication Disorders, and the Media Center, are all housed in this building.

Mason Hall, home of Fredonia's School of Music, is named for organist, composer and teacher Lowell Mason, called the "Father of Public School Music in America." Construction began in 2002 on the new 500-seat Juliet J. Rosch Recital Hall.

Located about 12 miles from the campus, the Herbert C. Mackie Memorial Camp, the location of the Center for Outdoor Education, provides opportunities for year-round educational and recreational activities. A sleeping lodge was completed in 1989.

Hours when academic buildings are open are published separately.

THE GRADUATE PROGRAM 104



Arts Administration (AADM)

AADM400 Arts Administration Practicum Frequency: A Supervised direct working experience serving on the support staff of the Michael C. Rockefeller Arts Center. Individual or team assignments may include front-of-house management? usher corps coordination, public relations, publicity, marketing research, database management, and project planning and implementation. Credits: 1-3

AADM490 Arts Administration Internship Frequency: A Upper level experiential learning opportunity through on-campus or off-campus placements. Nature of work will vary from placement to placement. This course is generally reserved for majors and students are responsible for finding and negotiating their own placement. Course requires students to complete a Learning Contract in accordance with college guidelines before the start of the internship. Credits:1-15

Accounting (ACCT)

ACCT201 Financial Accounting Frequency: A An introduction to financial accounting theory and practice, including generally accepted accounting principles (GAAP). Emphasis is given to the use of basic financial accounting concepts to make better, more informed business decisions. Credits: 3

ACCT202 Managerial Accounting Frequency: A An introduction to managerial accounting theory and practice. Emphasis is given to the use of accounting techniques and concepts in managing, controlling, and decision-making within the organization. Prerequisite Courses: ACCT 201 Credits: 3

ACCT301 Intermediate Accounting Frequency: B An in-depth study of the theory and application of generally accepted accounting principles. Emphasis is given to the environment of financial accounting including the standard setting process and the conceptual framework. Specific topics include the time value of money, receivables, inventories, long-term assets, and current liabilities, intangibles, and contingencies. Prerequisite Courses: ACCT 202 Co-requisite Courses: ACCT 321 Credits: 3

ACCT302 Intermediate Accounting II Frequency: B A challenging course including the rigorous study of theory and application of generally accepted accounting principles to complex accounting topics including stockholders' equity, revenue recognition, earnings per share, pensions, leases, accounting for taxes, accounting changes and error analysis, and cash flows. Prerequisite Courses: ACCT 301 Co-requisite Courses: ACCT 322 Credits: 3

ACCT303 Cost Management Frequency: B A study of the concepts and techniques of management and cost accounting including cost-volume-profit analysis, various product costing methods, cost behavior and allocation, and other internal accounting information needs for management decision-making. Computer software is used in solving application problems. Prerequisite Courses: ACCT 202 Credits: 3 ACCT304 Taxation of

Individuals Frequency: B An in-depth study of U.S. taxation of individuals including tax policy considerations and the historical development of tax law. The provisions of the Internal Revenue Code and related regulations will be used extensively. Prerequisite Courses: ACCT 202 Credits: 3

In the course descriptions, below each course name is a capital letter indicating how often the particular course is offered. The key to course frequency codes is as follows:

- A Course offered every semester
- B Course offered every year
- C Course offered every other year
- D Course offered on occasion

ACCT305 Taxation of Corporations and Partnerships Frequency: B An in-depth discussion of federal income taxation of multi-national corporations and partnerships. Tax issues connected to formation, operation, distributions, liquidation will be examined. Other topics discussed include: special tax assessments like the alternative minimum tax, the personal holding company tax, and the accumulated earnings tax, S corporations, taxation of international transactions, and tax research. Prerequisite Courses: ACCT 202 Credits: 3

COURSE

ACCT311 Business Law I Frequency: B

A general study of the functions and procedures of law. Included will be a detailed analysis of legal principles governing contracts, torts, agency and business organizations. This course represents the first half of the Business Law sequence. It is designed to provide accounting students with the required knowledge and theory for the CPA examination, by paying particular attention to practical business law problems involving the application of legal principles. Prerequisite Courses: ENGL 100 Credits: 3

ACCT312 Business Law II Frequency: B A continuation of the study of law begun in ACCT 311. Topics covered include Uniform

Commercial Code subjects such as commercial paper, secured transactions, and sales, and other areas of law including bankruptcy, debtor/creditor relations, product liability, estate and trust law, and property, accountant liability and international law. Continuing attention is given to particular issues involving application of the principles discussed. Prerequisite Courses: ACCT 311 Credits: 3

ACCT321 Accounting Processes Frequency: B A mini-course to be taken with ACCT 301 that examines accounting processes, and the related methodology for recording financial statements. Prerequisite Courses: ACCT 202 Co-requisite Courses: ACCT 301 Credits: 1

ACCT322 Accounting Practice Frequency: B A mini-course to be taken with ACCT 302 which provides lab instruction to accompany topics under study in ACCT 302. Prerequisite Courses: ACCT 301 Co-requisite Courses: ACCT 302 Credits: 1

ACCT401 Advanced Accounting Frequency: B Extension of financial accounting to the study of additional accounting entities such as partnerships and consolidated and multi-national firms. Topics include accounting for mergers and acquisitions, consolidated financial statements, international transactions, and an introduction to fund accounting. Prerequisite Courses: ACCT 301 Co-requisite Courses: ACCT 421 Credits: 3

ACCT402 Governmental Accounting Frequency: C Study of accounting for governmental entities including: budgets, general funds, capital project funds, debt setvice funds, trust and agency funds, fixed assets, capital expenditures, property tax accounting, and interfund relationships. Also includes accounting standards for voluntary heaith and welfare organizations, colleges, hospitals, and other types of not-for-profit organizations. Prerequisite Courses: ACCT 301 Credits: 3

ACCT405 Auditing Frequency: B A study of the standards. procedures, strategies, and reporting used in the financial audit process. The environment in which the auditor functions is considered, including regulatory requirements, professional ethics, legal liability, and the business entity. The completion of a computerized audit case is required in this course. Prerequisite Courses: ACCT 302 Credits: 3 ACCT421 Accounting Cycles Frequency: B A mini-course to be taken with ACCT 401 that emphasizes

accounting cycles and the interrelationships of the accounts. Prerequisite Courses: ACCT 301 Co-requisite Courses: ACCT 401 Credits: I

ACCT430 Independent Study Frequency: A A course for highly motivated students to undertake, under guidance, special studies of areas of accounting which are not normally covered in other courses. Permission of instructor. Credits: 1-3

ACCT450-451 Senior Seminar Frequency: D Seminar dealing with contemporary problems in the field of accounting. The course is designed so that students may utilize what they have learned in previous accounting courses. This seminar also serves to introduce students to inter-disciplinary approaches in problem-solving and lead to possible areas of graduate or professional work. Topics will vary from semester to semester. Permission of instructor or senior standing. Credits: 1-3

DESCRIPTIONS

105

ACCT480 Internship Frequency: A This course provides credit to students for professional experiences which are closely related to their field of study. Enrollment is to be arranged with an appropriate instructor. Permission of departmental internship coordinator and junior standing. *Credits: 1-6*

American Studies (AMST)

AMST202 Introduction to American Studies Frequency: B An introduction to the interdisciplinary study of American cultures, their historical development and contemporary status. Focusing on literary and cultural representations of specific aspects of the American experience, the course will examine the constructed nature of American self-perceptions and of U.S. history. The course contextualizes US. cultures within the Americas and the global arena. Particular course emphasis is selected by the instructor. Credits: 3

AMST210 American Popular & Mass Cultures Frequency: C An introduction to the methodologies of studying American cultures, with a special focus on popular and mass cultures. Particular course emphasis will be determined by the individual instructor, but topics will stress the multiplicity of American cultures. While literary works will make up the majority of class texts, the course will utilize an interdisciplinary approach integrating materials from fields such as history, anthropology, women's studies, ethnic studies, geography, sociology, music, art, among others. Credits: 3

AMST215 Holidays and Culture American Frequency: B This course will examine the invention, celebration, and meanings of American holidays from the colonial era to the present. Issues to be considered include the ways in which holidays have shaped cultural values and American identity and vice versa; the ways in which holidays have both reflected and shaped views of gender, race, class, and ethnicity; and the relationships between holidays and religious belief, nationalism, consumer culture and political ideology. The course will take a multicultural and interdisciplinary approach. Credits: 3

AMST289 Comparative North America Frequency: C A survey of North American history that employs the methodology of comparative history to interpret the histories of the United States, Canada, and Mexico within a conceptual framework sensitive to continental similarities and differences. The course takes a thematic approach, and special attention is given to the political institutions and economic structures that have fostered transnational cooperation and continental integration. The social and cultural dimensions of discord and conflict also are examined. Credits: 3

AMST296 American Identities Frequency: A An exploration of the historical construction of American gender, ethnicity/race, and class, their present status, and their literary and cultural representations. Focusing on intersections between these categories of identity. the course will utilize an interdisciplinary approach, integrating materials from fields such as literary studies, history, women's studies, ethnic studies, geography, sociology, music, and art. *Credits: 3*

AMST338 19th Century American Culture Frequency: C Examines how social, political, andeconomicchangeshave affected American culture and Americans' lives. Topics include consumption patterns; recreational activities; architectural styles; high and popular culture; holidays; family life; and social and cultural rituals. Prerequisite Course: HIST 105 *credits: 3*

AMST340 20th Century American Culture Frequency: C Examines how social. political, andeconomicchangeshave affected American culture and Americans' lives. Topics include consumption patterns; recreational activities; architectural styles; high and popular culture; holidays; family life; and social and cultural rituals. Prerequisite Course: HIST 106 *Credits: 3*

AMST347 United States Immigration Frequency: C Immigration to the U.S., with an emphasis on comparing the experiences of European, African, Latin American, and Asian immigrants. Topics will include immigrants' lives, work, and communities; assimilation and cultural persistence; and the development of U.S. immigration policy. *Credits: 3*

AMST400 Concepts/Methods of American Studies Frequency: B Development of American Studies as a discipline; current splits in concepts and methods of American Studies; practice in making imaginative connections among elements in American culture and testing these connections by appropriate methods. Prerequisite Courses: AMST 202 Credits: 3

AMST401 Independent Study Frequency: D Intensive individual study of some aspect of American Studies involving production of paper or project. Request for enrollment must be made prior to registration in the form of a written proposal, signed by the supervising faculty member, and forwarded to the Coordinator of American Studies. Prerequisite Course: AMST 202 *Credits: 3*

AMST402 Senior Project Frequency: D Clearly defined independent project utilizing methods and materials of American Studies, culminating in complete written report and analysis. Variable credit to allow internships, study abroad, and similar field projects. Before registration, student must submit detailed description of proposed project, approved by the faculty member(s) who will supervise it, to American Studies Coordinator with request for specific number of credit hours. Prerequisite Courses: AMST 202

Anthropology (ANTH)

Credits: 3-15

ANTHI15 Introductory Anthropology Frequency: A An introduction to the basic concepts and findings of anthropology's four major subdivisions: physical anthropology, archaeology, linguistics, and cultural anthropology. Traces human biological and cultural evolution. Discusses and analyzes various cultural systems. *Credits: 3*

ANTH210 Physical Anthropology Frequency: C Anthropological view of human origins, the primate fossil record, biological aspects of humanity, non-human primates, human biological diversity, and the interplay between culture and biology. Prerequisite Courses: ANTH 115 *Credits: 3*

ANTH211 Archaeology Frequency: B Survey of archaeology, including major theories and methods. Emphasis upon interpretation of major findings, both prehistoric and historic. Prerequisite Courses: ANTH 115 Credits: 3 ANTH219 Cultural Anthropology Frequency: C The acquisition, nature, and impact of culture. An examination and comparison of a variety of cultural systems. Prerequisite Courses: ANTH 115 Credits: 3

ANTH300 Sex and Gender Frequency: A Description and analysis of sex and gender roles and relationships from a variety of societies at different levels of socio-cultural complexity. Note: Cross-listed as SOC 306 and WOST 302 Prerequisite Courses: ANTH 115 or SOC 116 *Credits: 3*

ANTH301 Plagues and Peoples Frequency: B Explores the impact of disease on human populations in terms of demographic, cultural and social changes. The rise of health care delivery systems as a response to epidemics. Examples include the bubonic plague of the 14th and 17th centuries, cholera, influenza, polio and AIDS. Note: Also listed as SOC 312. Prerequisite Courses: ANTH 115

or SOC 116 Credits: 3

ANTH311 Anthropology of the Supernatural Frequency: C Survey of various belief systems. Topics include: cults, sacred beings, rituals, shamanism, witchcraft, and magic. Prerequisite Courses: ANTH 115 *Credits: 3*

ANTH321 Anthropology of Indian America Frequency: C Survey of past and present Amerindian peoples and cultures of North America. Both aboriginal cultures and responses to European presence are emphasized for each region. Prerequisite Courses: ANTH 115 *Credits: 3*

ANTH322 Anthropology of Africa Frequency: B Survey course dealing with evolution of culture in Africa. Examination of range of variation of traditional African cultures and factors currently modifying them. Prerequisite Courses: ANTH 115 *Credifs: 3* ANTH324 Anthropology of the Caribbean Frequency: B Survey of the prehistory, history, and present day nature of the various cultures of the Caribbean region. Special emphasis placed upon: economic life, family patterns, political movements, and expressive culture. Prerequisite Courses: ANTH 115 Credits: 3

ANTH331 Anthropology of American Utopias Frequency: B An examination of the background conditions producing utopias and an ethnographic/historical analysis of selected utopian ventures (e.g. Amish, Shakers, Counterculture Communes). Prerequisite Courses: ANTH 115 or HIST 105 or HIST 106 or SOC 116 Credits: 3

ANTH345 Native People -Canada

Frequency: D This course focuses on the peoples and cultures which existed in what is now Canada prior to the arrival of Europeans and examines the issues facing them today. It incorporates data from archeology, ethnography, ethnohistory, art, and political science.

Prerequisite Courses: ANTH 115 Credits: 3

ANTH350 Special Topics Frequency: D Description: Special topics in anthropology not covered in detail by regular courses. Topic announced in Course Offerings Bulletin. Credits: 1-3

ANTH370 Seminar in Anthropology Frequency: D Focuses on particular methodological, theoretical, topical, or area concerns within the field of anthropology. Orientation lectures, review of literature, seminar discussions. Prerequisite Courses: ANTH 115 Credits: 3

ANTH470 Directed Study Frequency: D Reading and research course intended primarily for upper-level students. Deals with specialized concerns not covered in regular courses. Credits: 1-3

ANTH473 Museum Internship Frequency: D Supervised placement in a museum. This allows a limited number of advanced anthropology students to work with museum staff members on research, curation, and education projects. Credits: 3 ANTH570 Directed Study in Anthropology Frequency: D Individualized study under guidance of a member of the anthropology faculty. Credits: 1-3

Art (ART)

ART100 Visual Concepts Frequency: D Introductory course on the theory and practice of art in a post-modern world. Credits: 3

ART115 Masterpieces in Art to 1400 Frequency: B A concise survey of western art and architecture from prehistoric times to the end of the Middle Ages (c. 1400) with emphasis on the understanding and appreciation of key works of art, as well as their social and historical context.

Credits: 3

ART116 Masterpieces From 1400-Present Frequency: B A concise survey of western art and architecture from the Italian Renaissance (c. 1400) to the present, with emphasis on the understanding and appreciation of key works of art, as well as their social and historical context. Credits: 3

ART120 Visiting Artists Program Frequency: A Required for all art studio and art history majors each semester. Art faculty, guest artists and designers, and speakers provide lectures, and lead critiques and panel discussions relating to contemporary problems. Credits: 1

ART150 Drawing I Frequency: A Theory and practice in a variety of graphic media. Conte, ink, pencil, and charcoal used in studio problems to acquaint beginning student with full range of drawing possibilities. Credits: 3

ART151 Drawing II Frequency: A Continuation of Drawing I techniques: increased emphasis in modes of expression, use of color, pastels, and collage. Prerequisite Courses: ART 150 Credits: 3

ART155 2-Dimensional Design Frequency: A Introductory course investigating the principles and elements of visual design. Unity, emphasis, balance, scale, line, form, texture, rhythm and color are explored through two-dimensional studio problems. Credits: 3 ART229 American Indian Art Studio I Frequency: B Designed for the non-major with interests in American Indians and their native form of art. Course comprised of lecture and studio projects. Credits: 3

ART251 Art/Really - 19th Century America Frequency: D Painting and sculpture between 1820 and 1920 - when it evolved from objective realism to modernist abstraction is explored in the context of changing artistic and cultural values. Permission of the department. Prerequisite Courses: ART 115 or ART 116 Credits: 3

ART252 Life Drawing I Frequency: A Intensive drawing course related to the human figure. The figure is explored in various mediums and in both realism and abstraction. Research papers and readings out of the textbook are required. Prerequisite Courses: ART 150 Credits: 3

ART253 Life Drawing II Frequency: A Continued concentration on drawing the figure with more emphasis on use of color medium. Research papers will deal with contemporary and traditional artists whose work dealt with the figure. Prerequisite Courses: ART 252 Credits: 3 ART255 Introduction to

Photography Frequency: A A practical introduction to the theory and application of 35 mm camera controls and black and white darkroom techniques. An emphasis will be placed on the technical skills required to visually express oneself through the photographic medium. Lectures, darkroom laboratory, and field experience. Students must have a 35mm camera. Credits: 3

ART257 Sculptural Form and Content Frequency: A An introductory course that explores basic design considerations, materials, and techniques relating to three-dimensional expression. Classroom discussion and studio projects stress an individual interpretive approach to concept development. Slide lectures and assigned reading expose students to a contemporary perspective of 3-D expression both past and present.

Credits: 3

ART258 Figure Modeling Frequency: A A beginning course in methods and materials appropriate for sculptural expression of the human form. Clay, plaster, mold making, and casting techniques are covered. Technical and conceptual development of form is stressed. Theory and practice of the human form in art is introduced through lecture and research requirements. Credits: 3

ART259 Graphic Design I Frequency: 0 Introduction and orientation to concepts and skills necessary for visual communication. Fundamentals of language and principles of graphic design structure with an emphasis on media for development of ideas and imagery. Prerequisite Courses: ART 151 and 155 Credits: 3

ART260 Graphic Design II Frequency: B Continued application of organizational methods, concept development, structure and graphic translation in design practice. Introduction to fundamentals and language of topography. Prerequisite Courses: ART 259 Credits: 3

ART263 Relief Printing Frequency: B An introduction to the various techniques of linocuts. Students learn traditional techniques as well as monoprints, mixed media experimentation and reduction prints. The development of individual expression is stressed. Prerequisite Courses: ART 150 Credits: 3

ART264 Monotypes Frequency: B An introduction to monotypes and collagraphs. Students are directed to experiment with a wide range of approaches to the two techniques. Prerequisite Courses: ART 263 Credits: 3

ART273 Handforming Clay Frequency: A The elements and principles of 3-D design are explored through introduction to basic techniques for the construction of ceramic objects without the use of the potters wheel. Projects in Terra cotta clay explore the relationship of form and surface unique to the ceramic medium. Credits: 3

ART274 Pottery on the Wheel Frequency: A The rudiments of wheel forming pottery lead to the creation of bowls, vases, jars, and teapots in ceramics. Glazing and firing techniques for Stoneware clay are covered. Prerequisite Courses: ART 273 Credits: 3 ART285 Painting I Frequency: A Basic exercises in fundamental techniques with an emphasis in color theory and formal compositional elements. Credits: 3

ART286 Painting II

Frequency: A Begin professional preparation in becoming a painter by learning to create stretcher bars, stretch and prime canvas, build frames while continuing to further explore the foundations in art. Acrylic paint is primarily medium used in this class. Prerequisite Courses: ART 285

Credits: 3

ART305 Black and White Technique Frequency: B An exploration of more advanced techniques of exposure, development and printing of black and white film and print materials, with special emphasis on total control. Increased emphasis is also placed on aspects of composition, perception, content and presentation in black and white photography. Students must have a 35mm camera. Prerequisite Courses: ART 255 Credits: 3

ART320 Digital Imaging Frequency: B Theoretical and practical introduction to electronic imaging as a creative medium. Understanding of the principals, methods, techniques and vocabulary of the most widely used digital imaging processes with an emphasis on personal expression. Topics explored will include photographic manipulation, collage, fabrication and experimental media as forms of visual expression. Lectures, laboratory work and individual and collaborative projects. Prerequisite Courses: ART 255 Credits: 3

ART315 Readings in Art History Frequency: D

The nature of art history, the themes and ideas it investigates, and readings in some key classic authors, are the main topics of the course. Prerequisite Courses: ART 115 or

ART 116 Credits: 3

ART325 Art of the Italian Renaissance Frequency: D Evolution of Italian Renaissance art and architecture from the 14th century through the High Renaissance masters, including mannerism. General trends as well as careers of major artists emphasized. Prerequisite Courses: ART 115 or ART 116 Credits: 3 ART327 Baroque Art Frequency: D Art and architecture of Baroque and Rococo Europe during the 17th and 18th centuries, with a focus on Italy, France, the Netherlands, and England. Prerequisite Courses: ART 115 or ART 116 Credits: 3 ART340 History of Architecture Frequency: D A study of the evolution of form, style, structure and meaning in Western architecture from the Middle Ages through c. 1800. Credits: 3 ART345 Colonial American Architecture Frequency: D A survey of American architecture between 1610 and 1800, focusing on major stylistic trends and architects in New England, the South, and the Southwest. European antecedents will also be explored. Credits: 3 ART346 19th Century American Architecture Frequency: D The development of major stylistic movements, technological advances, and the careers of key architects between about 1800 and 1890, with a focus on the European sources and influences. Local versions of national styles will be featured. Prerequisite Courses: ART 115 or ART 116 Credits: 3 ART347 20th Century American Architecture Frequency: D Modernist and traditionalist themes in architecture of this century are explored, with the late 19th century as well as the European background. Technological developments, work of major architects, local variants of national styles will also be

examined.

ART 116

Credits: 3

Prerequisite Courses: ART 115 or

and thematic development is stressed. Prerequisite Courses: ART 150 and ART 151 Credits: 3 ART351 Special Topics: Art History Frequency: D Selected areas of history of art supplementing the regular program. Prerequisite Courses: ART 115 or ART 116 Credits: 1-3 ART352 Special Topics: Studio Art Frequency: D Selected studio media and techniques. Credits: 1-3 ART353 History of Graphic Design Frequency: C Graphic design from the 19th century to the present with emphasis on European and American sources. Discussion of illustration, photography and the impact of technology in design. Examination of events, ideas, movements, designers and other individuals that have historical significance and influence on contemporary graphic design. Credits: 3 ART355 Color Photography Frequency: B Explores aesthetics and technical knowledge necessary to master the art of color processing. While emphasis is placed on the use of negative, reversal and Polaroid films and print materials, attention is also paid to color theory, perception and aesthetics, as well as the use of alternative color processes. Students must have a . 35mm camera. Prerequisite Courses: ART 255 Credits: 3 ART357 3-D Methods and Materials Frequency: A This course offers an opportunity to investigate both traditional and innovative approaches to object making. Materials and processes may include hot and cold casting. welding, papermaking, and hand formed cement, among others. Cross-media explorations are encouraged. Technical exploration, craftsmanship, and underlying intent is scrutinized and fostered through class critique, peer review, and required research. Prerequisite Courses: ART 257 or 258

ART350 Drawing III

Advanced studio course dealing in

experimentation with media and

styles. Alternatives to traditional

drawing approaches are explored

Frequency: 6

Credits: 3

Frequency: A An advanced sculpture course that allows students to define and develop a personal body of work representing a serious exploration in their chosen mediums. Emphasis is placed on the continued development of technical craft and the refinement of thematic concerns. Appropriate information pertaining to theory and practice is provided. Professional practices including portfolio preparation, resumes, and artist statements are discussed. Prerequisite Courses: ART 257 or ART 258, and ART 357 Credits: 3 ART359 Graphic Design III Frequency: B Methods and processes of graphic design problem solving with an emphasis on symbols and images. Tailoring communication to audiences and acknowledging the role of context in the interpretation of form Prerequisite Courses: ART 260 Credits: 3 ART360 Graphic Design IV Frequency: B Development and preparation of design concepts for application in print media. Students analyze relationships between imagery, typography, sequence and

ART358 3-D Expression and

Craft

Prerequisite Courses: ART 359 Credits: 3

ART361 Typography I Frequency: B Principles of typographic composition, structure and hierarchy. Terminology, typographic history, technical issues related to typography. Typography as a medium of visual communication. Student exercises focus on the relationship between visual and verbal language and technical details of typographic specification and computer layout. Advanced placement review; or permission of instructor; ART 260. Credits: 3

ART362 Typography **II** Frequency: B Exploration of design using text type and typographic technology. Students investigate narrative and expressive use of typographic form and format/informational organization problems. Prerequisite Courses: ART 361 Credits: 3

ART370 Drawing **IV** Frequency: A Advanced studio course that stresses critical thinking as a means of self appraisal and the refinement of thematic approaches within traditional and non-traditional drawing mediums. Prerequisite Courses: ART 350 Credits: 3 ART373 Ceramic Form and Function Frequency: A Ongoing development of skills on the wheel focus on solving the design requirements of effectively functioning pottery. Emphasis is placed upon complexity and subtlety of in both form and glaze treatment. Students are involved in both glaze development and kiln firing. Techniques suitable for Porcelain and Raku clay are presented.

Prerequisite Courses: ART 274 Credits: 3

ART374 Vessels as Sculpture Frequency: A Handbuilding or wheel forming procedures are utilized to explore a variety of sculptural approaches to the ceramic vessel with a continued emphasis on the search for appropriate surface treatments and firing techniques. Students are guided toward the identification and expression of personal ideas in the medium. Prerequisite Courses: ART 274 Credits: 3

ART380 Illustration I Frequency: B Emphasis on research as it pertains to editorial assignments, including series of drawings and notes before final presentations. Most work will be black and white format. Prerequisite Courses: ART 150 and ART 151 and ART 155 Credits: 3

ART381 Illustration II Frequency: B Emphasis continues on research for editorial assignments with more attention given to color comps, drawings, and final presentations. Prerequisite Courses: ART 252 and ART 380 Credits: 3

ART385 Painting III Frequency: A Professional preparation continues by learning more about intellectual and historic perspectives related to painting while learning to prepare student's promotional support materials (slides, resumes, artist statements, etc.). Oil paint and its use in individual directions are encouraged at this level Prerequisite Courses: ART 286 Credits: 3 ART386 Painting IV Frequency: A Professional development is amplified by further study into elements discussed earlier in

sequence. More personal and intellectual interpretation of work is encouraged. Prerequisite Courses: ART 385 Credits: 3 ART401 Graphic Design V Frequency: B Emphasis on visual identity systems; conceptualization and development of entire programs, including two-dimensional and three-dimensional applications. Integration of corporate identity and environmental graphics and the formulation of design standards are addressed. Prerequisite Courses: ART 360 Credits: 3

ART402 Graphic Design VI Frequency: B Advanced problem solving in independent and investigative concepts. Exploration of actual, theoretical and conceptual concerns of visual communication. Professional practices and portfolio preparation are addressed. Prerequisite Courses: ART 401 Credits: 3

ART405 Photographic Inquiry Frequency: B Personal exploration in image development. Refinement of individual conceputal concerns and development of the professional portfolio. Issues will include professional practice, critical analysis and hybrid media. Students explore theoretical and critical concepts through relevant and interrelated readings, lectures, discussions, presentations, along with individual and group critiques. Prerequisite Courses: ART 305 and ART 310 and ART 355 (with minimum C grade) Credits: 3

ART420 Illustration III Frequency: B Projects will be addressed as they correspond to individual styles with assignments from outside sources within the college and community. Prerequisite Courses: ART 381 Credits: 3

ART421 Illustration IV Frequency: B Advanced projects working closely with faculty in publication and graphics. Portfolio review and preparation. Prerequisite Courses: ART 420 Credits: 3

ART440 Internship Frequency: D This course allows the student to receive credit for professional experiences related to some aspect of their field of study. Enrollment is to be arranged with an appropriate instructor. Credits: 1 - 15 ART441 Directed Studio Projects Frequency: A Directed studio work in all media. Student meets with designated faculty member on a regular basis throughout the semester. Sound background in area of investigation required. Student must file acceptable plan for proposed project. Permission of the department. Credits: 1-3

ART442 Directed Study: Art History Frequency: A Directed research in specific areas of art history, stressing depth of inquiry. Subject of study chosen in consultation with department. Credits: 1-3

ART451 Modern Architecture Frequency: D A study of architecture in Europe and America from c. 1800 to the present. Both general trends and the careers of major architects (such as Le Corbusier, Gropius, and Frank Lloyd Wright) will be explored. Prerequisite Courses: ART 115 or ART 116 Credits: 3

ART452 Typography III Frequency: B Typographic theory exploring traditional and nontraditional forms, both historical and contemporary typographic achievements. Analysis of expressive characteristics and experimental uses of letter forms and text. Prerequisite Courses: ART 362 Credits: 3

ART460 Senior Seminar Frequency: A Formal and technical preparation for senior exhibits. Career development includes a writing component to aid the student in developing a resume, cover letter and artist's statement. Credits: 1

ART462 Design Realities/Professional Practice Frequency: B Comprehensive investigation and research into topics of production and practice in design. Content directed in three primary areas: pre-press preparation and materials, legal affairs, and the professional studio. Issues to be addressed include electronic file management, paper specification, supplier relationships, copyright and plagiarism, business contracts, ethics, studio ownership, management and record keeping. Requires compilation of individual journal and written research/analysis of specific course topic. Prerequisite Courses: ART 401 or ART 420 Credits: 1-3

ART472 Gallery Practicum Frequency: D This course allows the student first hand knowledge of the duties involved in operating a gallery. Such duties may include but are not limited to assisting the director in picking a schedule, contacting artists, creating the advertising and mounting the exhibitions. Credits: 1-3

ART480 Workshops Frequency: D Workshops offered in specialized areas, such as ceramics or painting, primarily during the summer to give students an opportunity for intensive study in one aspect of a larger field. Credits: 3

ART494 Independent Study: Art History Frequency: A Independent research in specific areas of art history, stressing depth of inquiry and development of topic. Subject of study chosen in consultation with department. Credits: 1-3

ART495 Independent Studio Projects Frequency: A Independent studio work in all media. Sound background in area of investigation required. Student must file acceptable plan or proposed project. Credits: 1-3

ART496 Teaching Assistant Frequency: A This course is designed for students to become familiar with the instructing process. The student will assist the instructor of an individual studio or art history course in the classroom throughout the semester. Course work includes attendance of all scheduled classes for the course, assisting students during lab or study sessions as well as taking an active role in classroom critiques, discussions and studio maintenance. Permission of the instructor of the accompanying course is required. Credits: 3

ART541 Independent Project Art History I

Frequency: D Independent research in specific area of art history, stressing depth of inquiry. Subject to study chosen in consultation with department. Credits: 3

ART542 Independent Project Art History II Frequency: D Independent research in specific area of art history, stressing depth of inquiry. Subject to study chosen in consultation with department. Credits: 3 ART545 Seminar in Art History and Criticism Frequency: D Readings and discussions, reportage and criticism, including role of critic, influence of media, and formation of public attitudes. Credits: 3

ART551-556 Independent Studio Projects Frequency: D Independent studio work in drawing, painting, sculpture, printmaking, ceramics, or combination of media. Sound background in area of investigation required. Student must present an acceptable plan for proposed project. Credits: 1-3

Biology (BIOL)

BIOL100 Studying for Success-Biology Frequency: D

This one-credit course is designed to provide science students with time-management and study skills as they make the transition to the college level learning environment. Properly implemented, these methods will provide freshmen with the opportunity to succeed and potentially excel in college science courses. Many of these skills will likely be applicable to other courses. The strategies introduced include: time-management, daily and weekly study plans, methods of reading text, how to effectively study for a test, and test taking strategies. Students will also be introduced to some to the basic concepts in biology. Credits: 1

BIOL105 Freshman Seminar on Sexual Concerns Frequency: D

Introductory course is intended exclusively for freshmen of all majors. The course will include an overview of basic biological concepts related to human sexuality. Major topics of presentation will include information about the male and female reproductive systems, microbiology, immunology, pregnancy, sexually transmitted diseases, and a variety of approaches to protect against disease and unwanted pregnancy. Credits: 1

BIOL110 Human Biology Frequency: B Overview of biological aspects of human nature. Survey of basic human physiology: reproduction, and development. Introduction to genetics and the record of human evolution provides starting point for discussion of adaptive significance of human intelligence and social organization. Credits: 3 BIOL111 Introduction to Biology Frequency: A Introductory course for non-science majors only. Intended to develop an understanding of the operation of biological systems and an acquaintance with basic biological concepts and principles. Credits: 3

BIOL115 Environmental Biology Frequency: A Study of basic relationships between the environment and humans. Discussion of constraints and relationships found in nature from points of view of the physical and life sciences and investigation of how people make decisions to utilize the environment as a resource from the viewpoint of the social sciences. Attempts to link natural and social sciences for awareness of multifaceted nature of environmental problems. Credits: 3

BIOL120 Microorganisms/Biotechnology Frequency: D An introductory study of the structure, metabolism, and genetics of microorganisms. Discussion will focus on the methods used to manipulate and transform biological processes and the role that microorganisms play in the rapidly expanding field

of biotechnology.

Credits: 3

BIOL141 Plant Diversity/Ecosystem Biology Frequency: B A survey of the plants, fungi and algae, with emphasis on the comparative form and function among major plant groups. Significant discussion of Angiosperms and a survey of ecological processes and relationships. Credits: 3

BIOL142Plant/Ecosystem Biology Lab Frequency: B Laboratory exercises designed to explore the structure and function of the plants, fungi, and algae and demonstrate ecological principles. Credits: 1

BIOL144 Animal Biology and Evolution Frequency: B An evolutionary survey of the animal kingdom emphasizing adaptive aspects of comparative zoological forms and functions. Population genetics and evolutionary theory are considered in detail. Prerequisite Courses: BIOL 141 and CHEM 115 Credits: 3

BIOL145 Animal Biology/Evolution Lab Frequency: B A survey of animal types from Protozoa to Chordata with emphasis on the evolution of animal structure and function. Credits: 1 BIOL146 Introductory Laboratory in Genes and DNA Frequency: B The laboratory will provide students with an opportunity to learn the basic principles of common molecular genetic techniques, such as DNA isolation, the polymerase chain reaction, DNA sequencing, and forensic DNA typing. There will also be an introduction into bioinformatics. Students should also be taking Plant Diversity/Ecosystem Biology, BIOL 141. Credits: 1

BIOL221 Human Anatomy Frequency: B Integrated survey of gross and microscopic anatomy of human body. Lectures correlated with laboratory exercises which present dissections, microscope slides, charts and models. Two lectures, one laboratory. Credits: 3

BIOL241 Introductory Cell Biology Frequency: B Introduction to central concepts of cell biology. Includes biologically important macromolecules, basic metabolic processes, cell structure/function, and cell cycle. Prerequisite Courses: BIOL 144 and BIOL 145 and CHEM 115 Credits: 3

BIOL242 Introductory Cell Biology Lab Frequency: B A laboratory course emphasizing the methods and techniques used in cellular and molecular biology. Laboratory exercises focus on cell processes and stresses quantitative and computer skills. Credits: 1

BIOL250 Basic Concepts in Biology Frequency: D Examination of selected areas of general biology for interested lower division major or non-major. Emphasis on developing basic background in such areas as botany, zoology, and the relationships between these fields and human society. Examples of courses offered include Field Natural History and Fungal Pathogens. Course may not be used as Biology major elective. Topics are determined by student interests. Prerequisite Courses: BIOL 111 of BIOL 141

Credits: 1-6

Biology Frequency: D Examination of selected areas of general biology for interested lower division major or non-major. Emphasis on developing basic background in such areas as botany, zoology, and the relationships between these fields and human society. Examples of courses offered include Field Natural History and Fungal Pathogens. Course may not be used as Biology major elective. Topics are determined by student interests Prerequisite Courses: BIOL 111 or BIOL 141 Credits: 1-3 BIOL256 Introduction to Clinical Science Frequency: A A course designed to acquaint sophomores with various career

BIOL251 Basic Concepts in

opportunites available in medical technology. Educational requirements and professional responsibilities are also discussed. Small group discussions of clinical literature and a tour of a hospital lab are featured. Credits: 1

BIOL310 The Human Genome Frequency: C This course will focus on human genes, their inheritance and the Human Genome Project. The broad subject area of genetics will be covered including studies of genes and genomes in other species to facilitate a better understanding of human genetics. Prerequisite Courses: BIOL 110 or BIOL 111 Credits: 3

BIOL330 General Ecology Frequency: B Introduction to ecology emphasizing general principles at individual, population, and community levels. Examples of various approaches (observation and experimentation, field and laboratory studies, and modeling and computer simulations) are considered. Prerequisite Courses: BIOL 141 and BIOL 144 Credits: 3

BIOL331 General Ecology Laboratory Frequency: B Laboratories designed to give a diversity of experience, building upon principles of individual, population, and community ecology. A quantitative approach to the study of ecology is emphasized. Labs include plant and animal studies and field and laboratory experiments, as well as long- and short-term studies. Credits: I BIOI 333 Biochemistry Frequency: B The structure and function of proteins and the regulation of metabolic pathways will be the central concepts presented in the course. Students should gain an understanding of the fundamental principles of the biology of protein molecules. Prerequisite Courses: CHEM 216 and CHEM 226 (BIOL 335 recommended) Credits: 3 BI0L334 Biochemistry Laboratory Frequency: B

Introduction to laboratory practice using biochemical techniques to isolate and characterize proteins. Enzyme kinetics and bioinformatics are also covered. Credits: 1

BIOL335 Genetics Frequency: B The principles of genetic analysis and the nature of the gene. Mendelian and molecular genetics; emphasis on the expression of heritable characteristics. Discussion of the chromosomal and molecular basis of inheritance and replication and mutation of hereditary material. Laboratory exercises include analysis of Mendelian genetics and DNA

isolation and examination. Two lectures, one laboratory. Prerequisite Courses: BIOL 241 Credits: 3 BIOL336 Mammalian Physiology Frequency: B An integrative approach to

An integrative approach to systems physiology. After an initial discussion on mechanisms of cellular regulation of homeostasis, individual physiological systems, e.g. respiratory, cardiovascular, are examined. Organ and system action are related to demonstrate integration of function within the body. Major emphasis will be on normal human functions. Prerequisite Courses: BIOL 241 and CHEM 215 Credits: 3

BIOL337 Mammalian Physiology Lab

Frequency: B A laboratory course designed to complement BIOL 336 Mammalian Physiology. Laboratory exercises examine, through experimentation, the integrative functions of organs and systems within the body. Labs include excitable cell physiology, cardiovascular, excretory and exercise physiology. Wherever possible, human models are utilized. Co-requisite Courses: BIOL 336

Credits: 1

BIOL338 Microbiology Frequency: 6 The course includes a basic study of microbial taxonomy, morphology, biochemistry, and reproduction. Great emphasis is placed on medical microbiology, infectious diseases, microbial genetic regulation, and the application of microorganisms in recombinant gene technology. Laboratory includes identification of microbes by colonial and microscopic features, biochemical properties, and antibiotic sensitivities. Two lectures, one laboratory. Prerequisite Courses: BIOL 333 and BIOL 335 Credits: 3 BIOL340 Cell and Subcellular Biology

Frequency: B Cell structure and function at cellular and molecular level using animal, plant, and microbial cells to illustrate common and divergent tenets. Physical and chemical organization of cells, analysis of the cell concept, emphasis on biochemical, physiological, and ultrastructural properties. Laboratory exercises dealing with isolation and characterization of cell fractions. Two lectures, one laboratory. Prerequisite Courses: BIOL 333

and MATH 120 Credits: 3

BIOL344 Parasitology Frequency: B A survey of the more important protozoan and helminth parasites of humans. Special emphasis is given to epidemiology, pathogenesis, diagnosis, and treatment of common parasitic diseases. Prerequisite Courses: BIOL 144 Credits: 1

BIOL345 Emerging Infectious Diseases Frequency: D This course will examine infectious diseases whose incidence in humans has increased within the past two decades. The course will focus on the etiological agents, infectious disease process, epidemiology, and the factors associated with the emergence and reemergence of these infectious diseases. Credits: 3

Discussion of the many ways AIDS and STDs (sexually transmitted diseases) have affected people and the societies in which they live. The course includes information about human physiology, immune defense mechanisms, and microbiology. Detailed biological discussions focus on the transmission of AIDS and STDs, disease symptoms, treatment, and prevention, as well as information on the historical accounts, global and regional impact, ethical, legal and public policy considerations, economic impact of AIDS and STDs, and the psychosocial impact on the individual, family and community. Note: Students in any Biology degree program may earn elective credit for only one of BIOL 310, 360, or 421. Prerequisite Courses: BIOL 111 or BIOL 141 Credits: 3 BIOL397 Biochemistry Seminar I Frequency: B Current biochemical research papers are analyzed in a journal club (open discussion) format. This course will help students to develop critical reading skills and underscore how an array of biochemical techniques are

BIOL360 AIDS and STDs

Frequency: B

applied to address a research problem. Faculty from both biology and chemistry participate in this seminar. Credits; 1

BIOL410 Tropical Biology Frequency: C A lecture and field course on the natural history and ecology of the neotropics Students examine several terrestrial and marine tropical ecosystems, including lowland rain forests, elfin forests mangrove communities, and coral reefs. Each student completes a field project and journal. One lecture per week during the semester followed by a two-week field experience in Costa Rica during winter break. Students are responsible for travel expenses. Credits: 3

BIOL417 Comparative Animal Physiology Frequency: C How animals maintain homeostasis in a non-homeostatic world. After a general introduction to mechanisms of cellular regulation and energetics the class will discuss specific physiological systems (respiratory, cardiovascular, osmoregulatory, etc.) and compare the modes and strategies employed by different animal groups in responding to changes in external environment. Particular attention directed to adaptations to marginal habitats, e.g. marine intertidal, deep sea hydrothermal vents, hot desert. Prerequisite Courses: BIOL 336 Credits: 3

COURSE DESCRIPTIONS 111

BIOL419 Genes and Genomes Frequency: C

The course will focus on the study of DNA and genes from the paper by Watson and Crick to the Human Genome Project. The genetic and molecular approaches used to identify genes and the impact of genome study on society and current scientific research will be discussed. Prerequisite Courses: BIOL 333

and BIOL 335 Credits: 3

BIOL420 Population/Community Ecology Frequency: C

Frequency: C Reading and discussion of primary literature relating to population and community ecology. Topics include population growth, life history patterns, competition, plant-animal interactions, and community organization. Prerequisite Courses: BIOL 330 Credits: 3

BIOL421 Biological Conservation Frequency: B An examination of species diversity with an emphasis on human activities which affect these patterns. Major topics will include the effects of land use practices, habitat fragmentation, invasive species and pollution on the current distribution and extinction patterns of plants and animals. Prerequisite Course: BIOL 330 Credits: 3

BIOL422 Physiological Ecology Frequency: C Reading and discussion of primary literature relating to animal interactions with the environment. Examination of potential effects of specific habitats (e.g. deserts, deep sea) and the physiological responses of various animals to these environmental challenges. Prerequisite Courses: BIOL 330 Credits: 3

BIO1424 Aquatic Biology Frequency: C Classification and biology of major groups of organisms that inhabit freshwater environments,

characteristics of aquatic habitats, pollution of aquatic environments, and the role of physical and chemical factors in aquatic ecosystems. Prerequisite Courses: BIOL 330

Credits: 3

BIOL426 Current Environmental Topics

Frequency: B The focus of this course is on global environmental issues. The issues examined have been making the news during the last year and at the time the course is taught. Changes in climate, overpopulation, pollution, conservation, development, genetically modified organisms, invasive species, illegal species trade, etc. are some of the ongoing issues that are covered in the course. The format of the course invites participation, discussion and critical thinking. Prerequisite Course: BIOL 330 Credits: 3

BIOL427 Fisheries Science Frequency: C This course is an overview of Ichthyology, Fisheries Biology, and Fisheries Conservation. Students will be introduced to the taxonomic diversity of fish, fish adaptations, techniques and models used in the study of fish populations, community interactions, and issues concerning fisheries conservation and management. Special emphasis will be placed on understanding Great Lakes fisheries. Prerequisite Course: BIOL 144 Credits: 3

BIOL429 Field Biology Frequency: D A field-oriented course with emphasis on developing and testing scientific hypotheses. Activities include identification of local flora and fauna, using a wide variety of field techniques, statistical analysis, and writing scientific reports. Some Saturday field trips required. Prerequisite Courses: BIOL 330 Credits: 3

BIOL431 Senior Seminar Frequency: A Reading, discussion, and analysis of current topics of biological significance using original source material from primary biological periodicals. Students prepare and present a seminar based on an extensive review of the available literature. Credits: 1

BIOL435 Developmental Bioloav Frequency: B A study of animal development integrating descriptive, experimental, cellular, and molecular studies of gametogenesis, fertilization, cleavage, gastrulation, induction, and maturation. Labs examine development from an historical perspective including: descriptive, experimental and molecular embryology incorporating hypothesis testing through the use of micromanipulation, cell culture and immunohisto-chemistry. Two lectures, one laboratory. Credits: 3

BIOL440-441 Undergraduate Research Frequency: A Independent study and research of mutual interest with faculty member in such areas as morphology, physiology, evolution, development, population dynamics, genetics, biochemistry, cell and subcellular biology, microbiology, ecology, behavior and conservation. Course may be repeated: maximum of 12 credits count toward the B.S. degree, only 3 of which may be included in a Biology major. Note: Students may earn Biology elective credit for only one of BIOL 440/1 or 458. Credits: 1-3

BIOL443 Plant Physiology Frequency: C Study of the life processes and responses of plants, including water relations and transport, photosynthesis and general metabolism, mineral and organic nutrition, photoperiodic responses and rhythms, growth and differentiation, and plant relationships with the environment. Prerequisite Courses: BIOL 241 Credits: 3

BIOL445 Photobiology Frequency: C An examination of the interactions of organisms and light. Topics include photochemistry and light measurement techniques, photosynthesis, vision, phototropic and phototactic responses and the role of light in reproduction of both plants and animals. Credits: 3

BIOL446 Animal Behavior Frequency: B Survey on theories and practices in study of animal behavior; emphasis on phylogeny and adaptive significance of behavioral patterns. Research techniques and physiological mechanisms considered in detail. Prerequisite Courses: BIOL 241 Credits: 3

BIOL447 Evolution Frequency: B Consideration of the theoretical framework of evolutionary biology and the mechanisms of evolution. Special topics include microevolution, macroevolution, and coevolution. Prerequisite Courses: BIOL 330 and 335 Credits: 3 BIOL450-451 Modern Concepts in Biology Frequency: A An in-depth examination of selected areas of biology for interested upper-division students. Topics are determined by faculty and student interests and emphasize methods and recent research developments. Examples of topics currently offered on a rotating basis include: Biomembranes, Hormone Mechanisms, Molecular Biology, Cell/Hybridoma Culture, and Biology of Terrestrial Vertebrates. Credits: 1-3

BIOL453 Basic Hematology Frequency: B Introduction to the study of blood, its cellular components, and various blood diseases. Laboratory exercises include a variety of manual techniques involved with blood cell counts and determinations. Prerequisite Courses: BIOL 336 Credits: 1 BIOL457 Biostatistics Frequency: C A review of statistical tests frequently used in the biological

frequently used in the biological sciences. Emphasis is placed on understanding experimental design and what statistics can and cannot do. Uses of computer statistical packages are also considered. Credits: 3

BIOL458 Laboratory Supervision in Biology Frequency: A A supevisory experience in teaching of the biology department's laboratories under the guidance of a faculty member. Student experiences may include: preparing materials for the lab, and demonstrating procedures and techniques to students. Note: Students may earn Biology elective credit for only one of BIOL 440/441 or 458. Credits: 1

BIOL460 Recombinant Gene Technology Frequency: B Basic molecular biology techniques are taught within a research project in which students isolate and characterize and sequence a gene from a DNA library. Other experiments include the identification of organisms based on DNA sequences and typing of human DNA. One lecture, two laboratories. Prerequisite Courses: BIOL 333 and BIOL 334 and BIOL 335 Credits: 3

BIOL461 Immunology and Serology Frequency: B Study of the mechanisms of the immune response including cellular basis of immunity and molecular basis of antigen-antibody reactions. Regulation of antibody production and cell-mediated reactivity examined. Current clinical applicability considered in discussion of tumor, transplantation, allergy-related, and autoimmune immunobiology. Several laboratory exercises included involving serological/immunological determinations detecting antigen-antibody interactions. Three lectures. Prerequisite Courses: BIOL 333 and BIOL 335 Credits: 3

BIOL465 Advanced Experimental Biochemistry Frequency: B State-of-the-art biochemical and molecular techniques are taught within this hands-on, laboratory-based course. Potential topics include the polymerase chain reaction (PCR), oligonucleotide synthesis, DNN/protein sequencing and analysis (BLAST, DNASIS), pulse-field gel electrophoresis, gas chromatography-mass chromatography-mass spectroscopy (GC-MS), nuclear magnetic resonance (NMR) spectroscopy, high performance liquid chronatography (HPLC), immunochemistry, and/or other contemporary techniques. Prerequisite Courses: BIOL 334 Credits: 2

BIOL466 Current Issues in Developmental Biology Frequency: B Course focuses on recent developments in the rapidly expanding field of developmental biology. With the advent of the tools available to molecular biologists, the course will study recent advances in the genetic understanding of various aspects of embryological development and regeneration. The course will present a variety of topics including: fertilization, gastrulation, maternal effect genes, pattern formation, and evolutionary aspects of development. Prerequisite: Junior standing in major. Credits: 3

COURSE DESCRIPTIONS 113

BIOL468 Biomembranes Frequency: C The objectives of this course include: identification of different types of membranes based upon composition, morphology and cellular functions, and examination of experiments which have provided understanding of how membranes function in cells and organisms. Topics include membrane composition, electron microscope techniques, membrane transport, membrane proteins and enzymes, receptors, hormone interaction, cell recognition, secretion, and biogenesis of membranes. Prerequisites: BIOL 333 or equivalent, or permission. Prerequisite Courses: BIOL 333 Credits: 3

BIOL469 Eukaryotic Gene Regulation Frequency: C In-depth examination of the ways in which eukaryotic cells regulate their protein composition at the levels of genome replication, transcription, post-transcriptional modifications, and translation. Topics include chromatin structure, transcription factors, and DNA sequence elements, several cell-type specific transcriptional events and how these are regulated, as well as how transcriptional regulation gone awry can cause cancer. Prerequisite Courses: BIOL 241 and BIOL 335 Credits: 3

BIOL470 Hormone Mechanisms Frequency: C Course will examine the basic physiological, cellular and molecular pathways which regulate metabolism, growth, and neurological activities of organisms, especially mammals. Discussions will follow text information and general models will be supported with primary research literature to show developments from recent experiments. Prerequisite Courses: BIOL 333 Credits: 3

BIOL472 Microbial Pathogenesis Frequency: D Course focuses on the molecular basis of microbial pathogenesis. Through the application of molecular techniques to the study of the microbe-host interaction, scientists are gaining a fundamental understanding of the virulence mechanisms of microbial pathogens. Using primary literature the course will illustrate how the integration of the molecular basis of virulence mechanisms with the clinical aspects of disease has enhanced our understanding of the pathogenesis of infectious diseases. Credits: 3

BIOL-475 Advanced Biochemistry Frequency: B A continuation of BIOL 333, this course explores biochemical concepts and pathways with an emphasis on problem solving. Cellular control and coordination of biochemical pathways is emphasized in light of an advanced understanding of protein biochemistry. Lecture only. Prerequisite Course: BIOL 333 Credits: 3

BIOL497 Biochemistry Seminar II Frequency: B Students prepare oral presentations based on an assessment of current biochemical research papers. The course will help students to further develop critical reading and scientific communication skills. Faculty from both biology and chemistry participate in the seminar. Credits: 1

BIOL501 Biochemistry Frequency: D Advanced discussion of biological chemistry; chemistry of carbohydrates, lipids and proteins, and nucleic acids; bioenergetics; the structure and mechanism of enzyme action; protein biosynthesis; molecular genetics; selected topics in immunochemistry, and biochemical endocrinology. Prerequisite Courses: CHEM 21 6 Credits: 3

BIOL502 Methods in Biochemistry Frequency: D Theory and laboratory experiments demonstrating the techniques and applications of contemporary biochemistry including electrophoresis, chromatography, centrifugation, radioisotope methods, DNA sequencing, enzymology, spectrophotometry and gas chromatography. Prerequisite Courses: BIOL 501 Credits: 3

BIOL510 Tropical Biology Frequency: C A lecture and field course on the natural history and ecology of the neotropics Students examine several terrestrial and marine tropical ecosystems, including lowland rain forests, elfin forests, mangrove communities, and coral reefs. Each student completes a field project and journal. One lecture per week during the semester followed by a two-week field experience in Costa Rica during winter break. Students are responsible for travel expenses Credits: 3

BIOL517 Comparative Animal Physiology Frequency: C How animals maintain homeostasis in a non-homeostatic world. After a general introduction to mechanisms of cellular regulation and energetics, discussion will include specific physiological systems (respiratory, cardiovascular, osmoregulatory, etc.) and compare the modes and strategies employed by different animal groups in responding to changes in external environment. Particular attention directed to adaptations to marginal habitats, e.g. marine intertidal, deep sea hydrothermal vents, hot desert. Prerequisite Courses: BIOL 336 Credits: 3

BIOL519 Genes and Genomes Frequency: C

This course will focus on the study of DNA and genes from the paper by Watson and Crick to the Human Genome Project. The genetic and molecular approaches used to identify genes and the impact of genome study on society and current scientific research will be discussed. Prerequisite Courses: BIOL 333 and BIOL 335 Credits: 3

BIOL520 Population and Community Ecology Frequency: C Reading and discussion of primary literature relating to population and community ecology. Topics include population growth life history patterns, competition, plant-animal interactions, and community organization. Prerequisite Courses: BIOL 330 Credits: 3

BIOL522 Physiological Ecology Frequency: C Reading and discussion of primary literature relating to physiological and ecosystem ecology. Topics include resource acquisition, energetics, nutrient cycling, and energy flow. Prerequisite Courses: BIOL 330 Credits: 3

BIOL524 Aquatic Biology Frequency: C The course covers the classification and biology of major groups of organisms found in fresh water, characteristics of aquatic habitats, pollution of aquatic environments, and the role of physical and chemical factors in aquatic ecosystems. Prerequisite Courses: BIOL 330 Credits: 3 BIOL526 Current Environmental Topics

Frequency B The focus of this course is on global environmental issues. The issues examined have been making the news during the last year and at the time the course is taught. Changes in climate, overpopulation, pollution, conservation, development, genetically modified organisms, invasive species, illegal species trade, etc. are some of the ongoing issues that are covered in the course. The format of the course invites participation, discussion and critical thinking. Credits: 3

BIOL527 Fisheries Science Frequency: C This course is an overview of Ichthyology, Fisheries Biology, and Fisheries Conservation. Students will be introduced to the taxonomic diversity of fish, fish adaptations, techniques and models used in the study of fish populations, community interactions, and issues concerning fisheries conservation and management. Special emphasis will be placed on understanding the Great Lakes fisheries. Prerequisite Course: BIOL 114 Credits: 3

BIOL543 Plant Physiology Frequency: C Study of the life processes and responses of plants, including water relations and transport, photosynthesis and general metabolism, mineral and organic nutrition, photoperiodic responses and rhythms, growth and differentiation, and plant relationships with the environment. Laboratory includes problems and exercises in whole plant physiology as well as at the molecular level. The laboratory stresses methods rather than results. Two lectures, one laboratory. Credits: 3

BIOL544 Radiation Biology Frequency: C Lectures on techniques required for application of radioactive isotopes to biological research. Experimental isotope tracer techniques deal with in vitro and in vivo labeling as well as autoradiographic studies. Variety of living systems used. Credits: 3

BIOL545 Photobiology Frequency: C An examination of the interactions of organisms and light. Topics include photochemistry and light measurement techniques, photosynthesis, vision, phototropic and phototactic responses and the role of light in reproduction of both plants and animals. Credits: 3 BIOL547 Evolution Frequency: D Consideration of the theoretical framework of evolutionary biology and the mechanisms of evolution. Special topics include microevolution, macroevolution and coevolution. Credits: 3

BIOL550-551 Current Concepts in Biology Frequency: D An in-depth examination of selected areas of biology for interested upper-division students. Topics are determined by faculty and student interests and emphasize methods and recent research developments. Examples of topics currently offered on a rotating basis include: Biomembranes, Molecular Genetics, Cell and Hybridoma Culture, Enzymes, Ethology, Hormone Mechanisms, Bioenergetics, Microbial Genetics, Field Biology, and Advanced Developmental Biology, PCR, DNA Synthesis and Immunology. Credits: 1-3

BIOL557 Biostatistics Frequency: C Statistical tests frequently used in the biological sciences. Emphasis is placed on understanding what statistics can and cannot do, the meaning of a statistical test, and how to choose an appropriate statistical test. Uses of micro-computer and mainframe statistical packages (SPSS or MINITAB) are also considered. Credits: 3

BIOL564 Mammalogy Frequency: C Consideration of taxonomy, ecology, and physiology of mammals; world fauna examined, although emphasis on local species. Field population studies, collection and preservation of specimens, and studies in physiological adaptations of mammals.

BIOL566 Current Issues in Biology Developmental Frequency: B Course focuses on recent developments in the rapidly expanding field of developmental biology. With the advent of the tools available to molecular biologists, the course will study recent advances in the genetic understanding of various aspects of embryological development and regeneration. The course will present a variety of topics including: fertilization, gastrulation, maternal effect genes, pattern formation, and evolutionary aspects of development. Prerequisite: Junior standing in the maior.

Credits: 3

BIOL567 Biomembranes Frequency: C The objectives of this course include: identification of different types of membranes based upon composition, morphology and cellular functions, and examination of experiments which have provided understanding of how membranes function in cells and organisms. Topics include membrane composition, electron microscope techniques, membrane transport, membrane proteins and enzymes, receptors, hormone interaction, cell recognition, secretion, and biogenesis of membranes. Prerequisite Course: BIOL 333 Credits: 3 BIOL569 Eukaryotic Gene Regulation

Frequency: C In-depth examination of the ways in which eukaryotic cells regulate their protein composition at the levels of genome replication, transcription, post-transcriptional modifications, and translation. Topics include chromatin structure, transcription factors, and DNA sequence elements, several cell-type specific transcriptional events and how these are regulated, as well as how transcriptional regulation gone awry can cause cancer. Prerequisite Courses: BIOL 241 and BIOL 335 Credits: 3

BIOL570 Hormone Mechanisms Frequency: C This course will examine the basic physiological, cellular and molecular pathways which regulate metabolism, growth, and neurological activites of organisms, especially mammals. Discussions will follow text information and general models will be supported with primary research literature to show developments from recent experiments. Prerequisite Course: BIOL 333 Credits: 3

BIOL572 Microbial Pathogenesis Frequency: C This course focuses on the molecular basis of microbial pathogenesis. Through the application of molecular techniques to the study of the microbe-host interaction scientists are gaining a fundamental understanding of the virulence mechanisms of microbial pathogens. Using primary literature the course will illustrate how the integration of the molecular basis of virulence mechanisms with the clinical aspects of disease has enhanced our understanding of the pathogenesis of infectious diseases. Prerequisite Courses: BIOL 333 and BIOL 335 Credits: 3

BIOL600-601 Seminar Frequency: C Presentation of detailed study of topic of current interest in the biological literature. Attendance and one seminar presentation required for three semesters of all candidates for the master's degree. Students completing thesis research must present their results orally prior to their scheduled thesis defense. Credits: 1-3

BIOL611 Cell Regulation Frequency: D Integrated study of regulation at various levels within the cell. Molecular control of cellular activity and its interconnection with biochemistry including regulation of enzyme activity, nucleic acid and protein biosynthesis. metabolic control by hormones, and membrane regulatory functions. Prerequisite Courses: BIOL 501 Credits: 3 BIOL646 Reproductive Physiology Frequency: D Treatment of reproductive mechanisms in higher vertebrates; particular attention to mammals. Topics include biology of sex, structure-function relationship in male and female reproductive systems, gametogenesis, gonadal steroids, nongonadal endocrine control mechanisms, cyclic reproductive phenomena, insemination and fertilization, viparity, pregnancy, parturition and lactation, fertility and sterility, and effects of environment and nutrition on reproductive processes. . Prerequisite Courses: BIOL 501 Credits: 3 BIOL650 Special Topics in Biology Frequency: D Comprehensive reviews of current state of biological investigation for advanced graduate students. Analysis of frontiers of scientific advancement in molecular biology, quantitative ecology, and physiology. Credits: 3 BIOL690-691 Thesis Research Frequency: A Credits: 3 - 9

Business Administration

(BUAD)

BUAD100 Freshman Seminar Frequency: B A one-credit course intended to help incoming freshman succeed in Business Administration and Accounting at SUNY Fredonia. The course provides an introduction to the nature of college education and an orientation to the functions and resources of the Business Administration department and the college as whole. Credits: 1

BUAD101 Understanding Business Frequency: D

An introduction to the art and science of mobilizing, in pursuit of profit, scarce resources in order to satisfy customers' demand for quality products and services. Topics such as evolution of American business enterprises, social responsibility, production management, human resource management, marketing, accounting, and international business will be introduced. This course is designed primarily for non-majors, although open to Business Administration freshmen/sophomore students. Credits: 3

BUAD161 Information Technology Literacy Frequency: A Course examines the selection and use of basic hardware/ software technologies for personal productivity in everyday business settings. Students are introduced to how common informational business productivity software such as electronic mail, desktop publishing, presentation, electronic spreadsheets, file management and web browsers are used to gather, store, analyze and report information. Lab instruction is used to complement the course by providing student with hands-on experience with a set of the above-mentioned applications. Credits: 3

BUAD200 Fundamentals of Statistics for Business and Economics Frequency: A An introductory study of statistical methods as applied to business and economic problems. Topics covered include: frequency distributions, measures of central tendency, measures of dispersion, probability, probability distributions, sampling distributions, estimation, statistical inference, and simple linear regression. Emphasis on the use and abuse of statistics. Credits: 3

BUAD235 Introduction to Business Communication Frequency: B This highly practical course focuses on the critical communication skills involved in effective written and oral communication while emphasizing applications of communication concepts in the world of business. Students will be able to engage in application exercises, build their exploratory skills, and confront problems of diversity. The course is cross-listed with COMM 235. Prerequisite Course: ENGL 100 Credits: 3

BUAD261 Management Information Systems Frequency: A

Course provides an overview of strategic, tactical and operational systems used in business, and how these systems are used for decision support in organizations. The course discusses the concepts of IS for competitive advantage, data as a resource, IS and IT planning and implementation. Topics include systems theory and concepts, information theory and quality, decision theory, systems analysis, database management, network and telecommunication management, electronic commerce and social and ethical issues related to information systems. Lab instruction in developing of databases and decision support systems using an office software suite complements the course. Prerequisite Course: BUAD 161

Credits: 3

BUAD266 Business Application Development Frequency: B

Course covers the development of computer software for business information processing. Topics include flowcharting, pseudocode, algorithm development, data and file structures and representation and programming. The course also introduces students to basic software management practices for application development. Lab instruction in visual programming language-supporting objects is used to complement the course material. Prerequisite Courses: BUAD 161

and MATH 120 Credits: 3

BUAD300 Statistical Analysis Frequency: B

Continuation of BUAD 200. A study of the techniques and tools used in analyzing business and economic data with equal emphasis on interpretation of results while concentrating on estimation techniques. Simple and multiple linear regression, non-parametric tests, analysis of variance, time series, and surveying are discussed, although topics will vary depending upon students' needs. Use of SPSS/SAS computer software packages. Prerequisite Courses: ECON 200 Credits: 3 BUAD310 Legal Environment of Business Frequency: B A one semester survey course of legal issues affecting individuals and businesses. Topics covered include dispute resolution, contract law, torts, agency law, and laws governing the creation, operation, and termination of business organizations. Various public law topics will be examined, as well as principles of international law, and theoretical considerations. Prerequisite Courses: ENGL 100 Credits: 3

BUAD313 Health Law Frequency: C An introduction to the major legal issues and principles in the health care field and in administration of health care services, including federal and state legislation and regulations on private and public insurance programs, and on operation of hospitals, and other health care facilities. Other issues examined include medical malpractice, patients rights, confidentiality, living wills, and patient designation of a representative or proxy to act on their behalf. Credits: 3

BUAD315 Principles of Business Finance Frequency: A An examination of the conceptual and institutional framework within which the financial manager operates. Topics cover management and valuation of assets, including management of funds and working capital, financial planning and capital budgeting in a national and global environment. Prerequisite Courses: ACCT 201 and ECON 200 and ECON 202

Credits: 3

BUAD317 Corporate Finance I Frequency: B

An examination of problems related to the investment, acquisition, and distribution of financial resources. Stress is placed upon integrating these areas into one system to facilitate and evaluate the operation of the finance function. Topics include cash flows, risk analysis, capital budgeting and structure, and international financial management. Prerequisite Courses: BUAD 315 Credits: 3

BUAD319 Health Care Finance Frequency: C An introductory course on the application of financial management techniques in the health care industry. Particular emphasis is placed on understanding the unique problems facing the industry in the financial relationships among hospitals, patients, physicians and other providers, insurance, capital suppliers and governmental agencies. Prerequisite Courses: BUAD 315 Credits: 3

BUAD321 Management and Organizational Behavior Frequency: B An in-depth study of the theories and processes of management focusing on organizational behavior, hierarchical versus network organizational structure, and organizational culture. Issues within the organization such as motivation and leadership, diversity and group dynamics, and external environmental influences including technology, ethics, diversity and global considerations, are examined. Credits: 3

BUAD325 Principles of Marketing Frequency: A An introduction to the field of marketing and marketing management. Emphasis on the marketing function of pricing, promotion, distribution, and product design both domestically and internationally. Students will learn to employ state-of-the-art distribute, advertise, and promote products and services in the 21st century global economy as symbolic analysts and knowledge workers. The course will focus on how skilled marketers apply their knowledge and creative ideas to insure competitive success and market position and to fuel the high-tech information society. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3

BUAD327 Production and Operations Management I Frequency: A A fundamental course in the concepts of production and operations management (P/OM), and the use of quantitative methods and computer applications related to effective control of products and operative systems. Topics include P/OM strategy and international competition issues, decision-making tools, linear programming, waiting line models, process strategies, work measurement techniques, and purchasing management and Just-In-Time strategies. Prerequisite Courses: ECON 200 and MATH 120 Credits: 3

BUAD330 Human Resource Management Frequency: C A study of the Human Resource function. Topics covered include recruitment, selection, hiring, performance evaluation, compensation, motivation, training and development, legal environment such as OSHA, EEOC and sexual harassment issues, and industrial relations. Emphasis on how managers can deal with and use the Human Resources function. Prerequisite Courses: BUAD 321 Credits: 3

BUAD340 Marketing Research Frequency: D A specialized marketing course that examines modern methodologies needed to effectively use new information technologies to meet the world's growing demand for competitively priced quality products and services. The nature and scope of computer-aided marketing research, research design and data collection methods, including sampling and focus groups, are reviewed. Individual and group field projects will be reported in oral and written presentations. Prerequisite Courses: BUAD 161; BUAD 325; and BUAD 300 or ECON 300 Credits: 3

BUAD342 Consumer Behavior Frequency: B An integrative marketing course that examines individual psychological and social environments in which consumers attempt to satisfy felt needs and wants. Both marketing and personal perspectives are explored in class resulting in greater student appreciation and understanding of the complexity of human behavior in the new high-tech cross-cultural setting around the world. Prerequisite Courses: BUAD 325 Credits: 3

BUAD350 Special Topics Frequency: D Special topics in Business Administration not covered in detail by regular courses and not offered on a regular basis. Topic announced in Course Offerings Bulletin each semester. Credits: 1-3

BUAD361 Networks, Distributed Systems, Telecommunications Frequency: B Course provides an in-depth knowledge of data communications and networking requirements including networking and telecommunications technologies, hardware, and software. Emphasis is upon the analysis and design of networking applications in organizations. Management of telecommunications networks. cost-benefit analysis, and evaluation of connectivity options are also covered. Topics include communications protocols, local area networks (LAN), wide area networks (WAN), distributed systems, client-server systems, telephone service and internetting. Lab instruction in administering a LAN complements the course. Prerequisite Courses: BUAD 261 and MATH 120 Credits: 3

BUAD363 Systems Analysis and Design Frequency: B

Course provides an introduction to the analysis and logical design of computer-based information systems (IS) in business settings. This course is a survey of modem systems development practices and methods such as systems development life cycle, rapid applications development and prototyping. Topics include techniques for studying business information flows, defining information requirements, designing and implementing computer-based solutions, the roles of systems analysts and designers; and global and ethical concerns in systems development. The system analysis and design techniques and tools introduced in the course are integrated with lab instruction using Computer Aided Software Engineering (CASE) tools Prerequisite Courses: BUAD 261 and MATH 120 Credits: 3

BUAD366 Database Management Systems Frequency: B This course introduces the technologies used to develop and implement database applications for business. All major database management systems (DBMS), including hierarchical, network, relational and post-relational (object-relational and object-oriented) are covered, with relational database systems as the main focus. Special emphasis is placed on data modeling (entity-relationship and semantic-object), database design and normalization, and relational database querying through SQL (Structured Query Language) and QBF (Query-By-Form). Lab instruction in desktop and high-end DBMS using SQL complements the course. Prerequisite Courses: BUAD 363 Credits: 3

BUAD376 Business and Culture Frequency: B A survey of various aspects of culture and their impact on doing business in the international arena. Topics include verbal and non-verbal communication, negotiation, foreign exchange, and country-specific research. Emphasis on cultural awareness and understanding in business. *Credits:* 3

BUAD411 Marketing Management

Frequency: D A challenging course employing the Harvard Case Method in which students will develop an ability to make critical marketing decisions. support those decisions with appropriate analysis, and communicate ideas both orally and in writing. The goal of the course is to help develop students' critical reasoning powers using real-life examples of marketing problems encountered by both domestic and multi-national companies and comparing student recommendations with actual results. Prerequisite Courses: BUAD 325 Credits: 3

BUAD416 Investment Analysis Frequency: B A study of investment objectives; basic determinations of investment values: securities market organization: approaches to investment analysis; evaluation of valuation theories and procedures and individual and institution portfolio policies. Prerequisite Courses: BUAD 315 Credits: 3 BUAD418 Corporate Finance I1 Frequency: D A continuation of the study of problems related to the management of financial resources. Topics such as capital budgeting and cost of capital are

covered in greater depth. Other topics such as leasing and mergers which are not covered in prior courses are introduced. Prerequisite Courses: BUAD 317 *Credits:* 3

BUAD423 Strategic Management Frequency: A A capstone course emphasizing top multi-national management issues through utilization of knowledge and skills developed in previous courses. Problem analysis and decision-making in case studies and group projects simulate the process of strategy formulation in the firm. Prerequisite Courses: BUAD 315, BUAD 321, and BUAD 325 *Credits: 3* BUAD427 Production and Operations Management II Frequency: B Continuation of BUAD 327 with emphasis on the nature of the production, operations, and material functions and their interrelationship with quality. Discussions, problems, computer applications, and case studies of qualitative and quantitative methods of analysis currently available (e.g., material requirement planning, MRP I) to manage production operations functions. Indepth coverage of management science/operations research models to optimize resource utilization and management control in a production environment; capacity planning, reliability sampling, PERT/CPM scheduling and project management systems, transportation and location strategies, aggregate planning tactics, inventory management and Just-In-Time tactics, and materials resource planning (MRP II). Prerequisite Courses: BUAD 327 Credits: 3

BUAD430 Independent Study Frequency: C A course for highly motivated students to undertake, under faculty guidance, special studies in areas of Business which are not normally covered in other courses. *Credits: 1-6*

BUAD440 Advanced Human Resource Management Frequency: D The application of Human Resource Management concepts to specific business problems through case analysis relating to the Human Resource Management topics covered in BUAD 330. Prerequisite Courses: BUAD 330 Credits: 3 BUAD445 Integrated Marketing Communications Frequency: B This advanced marketing course analyzes the components of integrated marketing communications which includes all communication functions, both internal and external, of an organization employing new information technologies. Class discussions will explore determining domestic and international consumer needs and wants, creating advertising and promotional messages, media strategy, and message strategy. Students will gain practical experience in developing a comprehensive marketing plan. Prerequisite Courses: BUAD 325 Credits: 3

BUAD446 Sales Management Frequency: B This advanced marketing course of study includes how modern sales managers employ state-of-the-art technology to identify, process, and solve sales management problems. Class assignments and discussions reveal contradictory perspectives to complex marketing problems. The course will also cover sales force structure in new lean-management organizations, determining needed characteristics and recruiting of new sales representatives, and processing, hiring, training, and ethically managing a multi-national sales force in the 21st century. Individual and group presentations, both written and oral, will be required. Prerequisite Courses: BUAD 325 Credits: 3

BUAD450-451 Senior Seminar Frequency: D Seminar dealing with contemporary problems that is designed so that students may utilize what they have learned. This seminar also serves to introduce students to interdisciplinary approaches in problem solving and lead to possible areas of graduate or professional work. Topics will vary from semester to semester. Permission of instructor or senior standing. Credits: 1-3

BUAD462 Electronic Commerce Frequency: D Course provides more in-depth knowledge of current and emerging e-commerce technologies using the Internet introduced in earlier MIS courses. Topics include Internet technology for business advantage, managing e-commerce funds transfers, business opportunities in e-commerce, Web site design, social, political and ethical issues associated with e-commerce, and business plans for technology ventures. The purpose of this course is to educate managers, planners, analysts, and programmers of the realities and potential for e-commerce. Lab instruction in modern Internet application development complements the course. Prerequisite Courses: BUAD 261 Credits: 3

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BUAD463 Information Technology Project Management Frequency: B A survey of general management processes for planning, managing and controlling IT projects. Both technical and behavioral aspects of project management are discussed. The focus is on management of development for enterprise-level systems. Topics include defining project scope, cost and resource management, scheduling using PERT/CPM, quality management, risk management and project integration management. Lab instruction in a modern project management software tool complements the course. Prerequisite Courses: BUAD 363 Credits: 3

BUAD466 Business Modeling Object-Oriented Frequency: B Course covers physical design, programming, testing and implementation of object-oriented and client-sewer business information systems. Students learn how to define business objects and how to use them in creating a component-based application. Lab instruction using visual programming language supporting objects is used to complement the course material. Prerequisite Courses: BUAD 361 and BUAD 366 Credits: 3

BUAD480 Internship Frequency: A This course provides credit to students for professional experiences which are closely related to their field of study. Enrollment is to be arranged with an appropriate instructor. Permission of departmental internship coordinator and junior standing. Credits: 1-6

Chemistry (CHEM)

CHEM105 Food Chemistry Frequency: B Introductory course for non-science majors only. Chemical aspects of the collection, preparation, storage, cooking, and consumption of food. Not applicable toward a major or minor in Chemistry. Credits: 3

CHEM107 Chemistry for Consumers Frequency: A Introductory course for non-science majors; emphasis in practical aspects of chemistry in everyday life. Topics include nuclear chemistry, foods, gardening, pest control, health chemistry, and home products. Not applicable toward a major or minor in Chemistry. May include a laboratory component. Credits: 3 CHEM113 Chemistry and the Environment Frequency: C Basic chemical principles presented. Emphasis on their relationship to environmental problems of our society. Study of chemical nature of substances and their transformations from environmental point of view. Not applicable toward a major or minor in Chemistry. Credits: 3 CHEM115 General Chemistry Lecture I Frequency: A Nuclear, electronic, and molecular composition and structure and principles of chemical bonding used to describe nature and reactivity of atoms, ions, and molecules. Includes laws governing behavior of gases, liquids, and solids with consideration of oxidation-reduction, equilibrium, free energy, entropy, electrochemistry, and rates of chemical reactions. Prerequisite Courses: MATH 105 or MATH 106 or MATH 120 or MATH 122 Credits: 3 CHEM116 General Chemistry Lecture II Frequency: A Nuclear, electronic, and molecular composition and structure and principles of chemical bonding used to describe nature and reactivity of atoms, ions and molecules. Includes laws

molecules. Includes laws governing behavior of gases, liquids, and solids with consideration of oxidation-reduction, equilibrium, free energy, entropy, electrochemistry, and rates of chemical reactions. Prerequisite Courses: CHEM 115 Credits: 3 CHEM125 General Chemistry

Laboratory I Frequency: A Some fundamental principles in experimental investigation of chemical substances and phenomena. Includes consideration of chemical and physical properties and typical reactions of inorganic and organic compounds, Equilibria, thermochemistry, oxidation-reduction, rates of chemical reactions, and volumetric, gravimetric, and qualitative analysis investigated. One laboratory period per week. Credits: 1

CHEM126 General Chemistry Laboratory II Frequency: A Some fundamental principles in experimental investigation of chemical substances and phenomena. Includes consideration of chemical and physical properties and typical reactions of inorganic and organic compounds. Equilibria, thermochemistry, oxidation-reduction, rates of chemical reactions, and volumetric, gravimetric, and qualitative analysis investigated One laboratory period per week. Credits: 1 CHEM130 Honors General Chemistry Laboratory Frequency: B Directed studies designed to foster independence of thought and improve laboratory technique. Emphasis on quantitative determinations by acid-base, complexation, and spectroscopic methods. Open to Chemistry majors and others by permission of department. One laboratory period per week. Prerequisite Courses: CHEM 115 and CHEM 125 Credits: 1 CHEM215 Organic Chemistry Lecture I Frequency: A Structure and reactions of the most important classes of organic compounds: hydrocarbons and principal functional groups of the compounds of carbon. Structure, occurrence, properties of organic compounds of biological significance. Prerequisite Courses: CHEM 116 Credits: 3 CHEM216 Organic Chemistry Lecture II Frequency: A Structure and reactions of the most important classes of organic compounds: hydrocarbons and principal functional groups of the compounds of carbon. Structure, occurrence, properties of organic compounds of biological signiicance. Prerequisite Courses: CHEM 116 Credits: 3 CHEM225 Organic Chemistry Laboratory Frequency: B Techniques for determination of physical and chemical properties, synthesis, and isolation from natural sources, of organic compounds. Nuclear magnetic resonance and infrared spectroscopy incorporated in experiments. One laboratory period per week.

Credits: 1

CHEM226 Organic Chemistry Laboratory ш Frequency: B Techniques for determination of physical and chemical properties, synthesis, and isolation from natural sources, of organic compounds. Nuclear magnetic resonance and infrared spectroscopy incorporated in experiments. One laboratory period per week. Credits: 1 CHEM230 Advanced Organic Laboratory Frequency: B The utilization of instrumental methods and advanced laboratory techniques in organic chemistry. Includes hands-on use of various instrumental methods including infared, nuclear magnetic resonance, and gas chromatography. One three-hour laboratory period per week. Prerequisite Courses: CHEM 225 Credits 1 CHEM300 The Nature of Science Frequency: B For non-science majors only. Acquaints students with the principles and methods of science using examples taken mainly from chemistry. Relationships of science to the activities of non-scientists. Not applicable toward a major or minor in Chemistry. Credits: 3 CHEM302 Chemistry in Today's Society Frequency: D For non-majors only. Discussion of chemistry topics of major relevance to society, including some useful industrial processes, pollution, energy sources, and the detection of hazardous materials. especially those of local concern. Not applicable toward a major or minor in Chemistry. Credits: 3 CHEM305 Laboratory Supervision in Chemistry Frequency: A Students enrolling in this course serve as laboratory assistants under supervision of a faculty member. Students selected by department after completing application form (available from chairperson). Four hours of work per week expected for each hour

of credit elected: may be taken

toward major requirements.

1-2

Credits:

more than once. Does not count

CHEM314 Principles of Physical Chemistry Frequency: B A one semester introduction to physical chemistry intended primarily for biology and biochemistry majors. It emphasizes thermodynamics and kinetics, especially as applied to biological phenomena. Also included will be discussions of transport processes, solutions and electrolytes. Quantum chemistry will be briefly discussed. The course is only for biochemistry majors pursuing the biological emphasis track. Prerequisite Courses: CHEM 116 and MATH 121 or MATH 123 Credits: 3

CHEM315 Physical Chemistry Lecture I Frequency: B Application of the laws of kinetics, thermodynamics, quantum mechanics, and statistical thermodynamics to chemical systems. Theories relating to spectroscopy and molecular structure. Prerequisite Courses: CHEM 116 and MATH 123 and PHYS 231 and PHYS 233 Credits: 3

CHEM316 Physical Chemistry Lecture II Frequency: B Application of the laws of kinetics, thermodynamics, quantum mechanics, and statistical thermodynamics to chemical systems. Theories relating to spectroscopy and molecular structure. Prerequisite Courses: CHEM 116 and MATH 123 and PHYS 231 and PHYS 233 Credits: 3

CHEM317 Analytical Chemistry I Lecture Frequency: B Gravimetric, volumetric, and elementary instrumental determinations. Emphasis on volumetric analysis. Neutralization, oxidation-reduction. complexometric, and electrochemical methods. Introduction to computer methods in chemistry. Prerequisite Courses: CHEM 116 Credits: 3 CHEM318 Analytical Chemistry II Lecture Frequency: B Continuation of CHEM 317. Application of instrumental methods to quantitative chemical analysis, including spectroscopy, coulometry, potentiometry, polarography, chromatography, nuclear and chemical methods. Credits: 3 CHEM325 Physical Chemistry

Laboratory I Frequency: B Laboratory experiments designed to accompany CHEM 315. One laboratory period per week. Credits: 1 CHEM326 Physical Chemistry I aboratory Ш Frequency: B Laboratory experiments designed to accompany CHEM 316. One laboratory period per week. Credits: 1 CHEM327 Analytical Chemistry I Laboratory Frequency: B Laboratory experiments designed to accompany CHEM 317. Credits: 1 CHEM328 Analytical Chemistry II Laboratory Frequency: B Laboratory experiments designed to accompany CHEM 318. Credits: 2 CHEM370 Advanced Biochemistry Frequency: B A continuation of BIOL 333, the course explores biochemical concepts and pathways with an emphasis on problem solving. Cellular control and coordination of biochemical pathways is emphasized in light of an advanced understanding of protein biochemistry. Lecture only. Prerequisite Courses: BIOL 333 Credits: 3 CHEM371-372 Internship in Chemistry Frequency: A Approved practical experience in industrial, environmental, commercial, forensic, or other laboratories. Internships may accompany paid working time arrangements. Credits: 1-3 CHEM391 Independent Laboratory Research Frequency: A For students having junior standing. See CHEM 491 for list of study and research areas. credits: 1-3 CHEM392 Independent Laboratory Research Frequency: A For students having junior standing. See CHEM 492 for list of study and research areas. Credits: 1-3 CHEM395 Introduction to Research Frequency: B Prepares the student to carry out independent research. Topics include the philosophy of research, descriptions of current faculty research interests, research records, laboratory safety, use of the chemical literature, technical writing, and research tools and methodology. One lecture per week. Credits: 1

CHEM397 Biochemistry Seminar I Frequency: B Current biochemical research papers are analyzed in a journal club (open discussion) format. The course helps students to develop critical reading skills and underscore how an array of biochemical techniques are applied to address a research problem. Faculty from both departments participate in the seminar. Credits: 1 CHEM401 Computational Chemistry Frequency: C Discussion of the use of computers in chemistry. Topics include data acquisition, statistical analysis, databases and spreadsheets, Monte Carlo and molecular dynamics simulations, and quantum methods. Prerequisite Courses: CHEM 315 Credits: 1-3 CHEM405 Industrial Chemistry Frequency: C Application of chemical principles to chemical and environmental processes. Topics include mass and energy balances over complex systems, reaction kinetics and thermodynamics, combustion, behavior of real gases, and waste minimization. Directed toward students with career interests in industry and/or chemical or environmental engineering. Prerequisite Courses: CHEM 315 Credits: 3 CHEM407 Organometallics Frequency: C Introduction to the chemistry of transition metal organometallics. Descriptions of the bonding, synthesis, structures, and reactions of major classes of organometallic compounds, as well as their role in organic synthesis and catalysis Prerequisite Courses: CHEM 216 Credits: 3 CHEM412 Advanced Organic Chemistry Frequency: C The discussion of certain types of reactions for the synthesis of compounds having significance to organic or bioorganic chemistry. Examples include additiodelimination; oxidationheduction; free radical; carbanionic; pericyclic; and other types of reactions. Prerequisite Courses: CHEM 215 and CHEM 216 Credits: 3 CHEM417 Polymer Chemistry I Frequency: C An overview of polymers, with an emphasis on their chemistry properties, and significance. Focus on the synthesis, characterization, and fabrication of polymers. Prerequisite Courses: CHEM 215 and CHEM 216 and CHEM 315 Credits: 2

CHEM418 Polymer Chemistry II Frequency: C Continuation of CHEM 417. Emphasis on the physical chemistry of polymers. Prerequisite Courses: CHEM 315 and CHEM 417 Credits: 1

CHEM462 Inorganic Chemistry Frequency: B Topics include introduction to molecular symmetry and group theory. Discussions of electronic structure of atoms and their periodic properties followed by detailed considerations of ionic and covalent bonding. Acid-base theories presented in addition to general chemistry of the elements with emphasis on transition metals. Introduction to organometallic chemistry and bio-inorganic chemistry included. Prerequisite Courses: CHEM 315 Credits: 3

CHEM465 Advanced Experimental Biochemistry Frequency: B State-of-the art biochemical and molecular techniques are taught within this hands-on, laboratorybased course. Potential topics include the polymerase chain reaction (PCR), oligonucleotide synthesis, DNNprotein sequencing and analysis (BLAST, DNASIS), pulse-field gel electrophoresis, gas chromatography-mass spectroscopy (GC-MS), nuclear magnetic resonance (NMR) spectroscopy, high perfomance liquid chromatography (HPLC), immunochemistry, andlor other contemporary techniques. Minimum of 2 credits of this course Prerequisite Courses: BIOL 334 Credits: 2

CHEM472 Inorganic Chemistry Laboratory Frequency: B Laboratory studies of inorganic and organometallic compounds and ions. Synthetic experiments require inert atmosphere (vacuum line, dry box, and Schlenk) techniques; characterization by spectral, solid-state, and electrochemical methods. One laboratory period per week. Prerequisite Courses: CHEM 315 and CHEM 325 Credits: 1

CHEM473 Environmental Chemistry Frequency: C Interrelationships of chemistry with the environment. Topics include water quality and chemistry, waste disposal, atmospheric chemistry, and the chemistry of energy and power production. Class activities will include discussions of technical papers drawn from the contemporary scientific literature and simulation of environmental problems through computer models Prerequisite Courses: CHEM 315 and CHEM 317 Credits: 3

CHEM475 Advanced Biochemistry Frequency: B A continuation of BIOL 333, this course explores biochemical concepts and pathways with an emphasis on problem solving. Cellular control and coordination of biochemical pathways is emphasized in light of an advanced understanding of protein biochemistry. Lecture only. Prerequisite Course: BIOL 333 Credits: 3

CHEM481 Special Topics in Chemistry Frequency: A Topics of special or current interest offered periodically. Credits: 1-3

CHEM490 Independent Study Frequency: A Topics of special interest. Non-laboratory work in association with faculty supervisor. May require course prerequisites as determined by instructor. Credits: 1-3

CHEM491-492 Independent Laboratory Research Frequency: A For students having senior standing. Study and research areas include analytical, inorganic, organic, physical, and polymer chemistry. Prerequisites depend upon areas of study and research. Prerequisite Courses: CHEM 395 Credits: 1-3

CHEM495 Seminar: Advances in Chemistry

Frequency: A Topics of current research interest; presentations by seniors, graduate students, faculty, and visitors. Every student is required to present one seminar during one of the two semesters. Emphasis on detailed knowledge of subject matter, techniques for searching procedures for the preparation and presentation of a professional . seminar. Credits: I

CHEM496 Seminar: Advances in Chemistry

Frequency: A Topics of current research interest; students, faculty, and visitors. Every student is required to present one seminar during one of the two semesters. Emphasis on detailed knowledge of subject matter, techniques for searching the professional literature and procedures for the preparation and presentation of a professional seminar.

Credits: 1

CHEM497 Biochemistry Seminar II Frequency: B Students prepare oral presentations based on an assessment of current biochemical research papers. The course will help students to further develop critical reading and scientific communication skills. Faculty from both biology and chemistry participate in the seminar. Credits 1

CHEM499 Senior Thesis Frequency: B Preparation of an extensive written account of the student's original laboratory research including an in-depth literature survey, background discussion, presentation of data and results, and conclusions. Open to majors only. Credits: 1 CHEM511 Physical Organic Chemistry Frequency: D Molecular orbital theory, resonance, acid-base theory and mechanisms of organic reactions including unimolecular and bimolecular substitution reactions and intramolecular rearrangements. Prerequisite Courses: CHEM 215 and CHEM 216 and CHEM 315 and CHEM 316 Credits: 3 CHEM512 Advanced Organic Chemistry Frequency: D The utilization of certain types of reactions for the sythesis of compounds having significance to organic or bioorganic chemistry. Examples include addition/elimination: oxidationheduction; free radical; carbanionic; pericyclic; and other types of reactions. Credits: 3 CHEM515 Applied Spectroscopy

Frequency: D Detailed studies of the use of modern instrumental methods for the identification of organic and organometallic compounds. Emphasis on mass, nuclear magnetic resonance, infrared, and electronic spectroscopies. Credits: 3

CHEM521 Advanced Physical Chemistry Thermodynamics Frequency: D Application of theory of thermodynamics to chemical systems, including methods of quantum statistics. Prerequisite Courses: CHEM 326 and MATH 121 or MATH 123 Credits: 3 CHEM522 Advanced Physical Chemistry - Quantum Chemistry Frequency: D Basic concepts of wave mechanics and the application to topics of interest to chemists.

Credits: 3

Chemistry Frequency: D Advanced discussion of topics of importance to contemporary inorganic and organometallic chemistry, including group theory: acid-base behavior; structure, bonding, and reaction mechanisms of metal complexes; and bio-inorganic chemistry. Credits: 3 CHEM573 Chemistry and the Environment Frequency: D Interrelationships of chemistry with the environment. Topics include water quality and chemistry, waste disposal, atmospheric chemistry, and the chemistry of energy and power production. Class activities will include discussions of technical papers drawn from the contemporary scientific literature and simulation of environmental problems through computer . models. Credits: 3 CHEM581 Special Topics in Chemistry Frequency: D Topics of special or current interest offered periodically. Credit and prerequisite vary with nature of course offerings which may include physical inorganic

CHEM562 Advanced Inorganic

chemistry, organometallic chemistry, spectroscopy, photochemistry, heterocyclic chemistry, synthesis, polymer chemistry. topics in biochemistry. quantum chemistry, computers, or selected topics in chemical education.

Credits: 1-3

CHEM690 Independent Study Frequency: D Extensive study on advanced level of chemistry not covered in detail in formal courses. Paper or other demonstration of accomplishment required. Credits: 1-3

CHEM691 Research I Frequency: D Projects in areas of analytical, physical, organic, inorganic, and biochemistry. Credits: 1-3

CHEM692 Research II Frequency: D Projects in areas of analytical, physical, organic, inorganic, and biochemistry. Credits: 1-3

CHEM693 Research III Frequency: D Projects in areas of analytical, physical, organic, inorganic, and biochemistry. Credits: 1-3

CHEM694 Research IV Frequency: D Projects in areas of analytical, physical, organic, inorganic, and biochemistry. Credits: 1-3

COURSE

DESCRIPTIONS

Communication (COMM)

COMM101 Fundamentals of Communication Frequency: A An introduction to the study of human communication as it occurs within interpersonal, public, group, organizational, and mass communication settings. Provides a broad, general survey of literature relevant to human communication. Credits: 3

COMM102 Mass Media and Society Frequency: B An introductory course dealing, humanistically, with the process and effects of mass communication. Topics include: (1) a description of the industries of mass communication based on their mutual dependence; (2) related media industries advertising, public relations, news services; and (3) the influence and results of mass communication studying mass media research. Consideration of the ethical standards for the media. Credits: 3

COMM105 Public Speaking Frequency: A Basic principles involved in public communication. Emphasis on the techniques involved in audience analysis, critical thinking and argumentation, listening, ethics, and message structure and delivery for public presentations. Credits: 3

COMM110 Desktop Presentation Frequency: A Five week mini-course dealing with skills and concepts involved in preparing desktop presentations. Students will be introduced to Macintosh desktop and network operations, presentation software including Powerpoint and Photoshop, and associated computer input and output devices. Credits: I

COMM112 Desktop Video Frequency: A Five week mini-course dealing with skills and concepts involved in preparing video for computer multimedia presentation. Digitizing, non-linear editing of video and sound, effects and transitions, incorporation of computer graphics, and computer animation. Credits: 1

COMM114 Electronic Darkroom Frequency: A Five week mini-course covering the basics of computer imaging. retouching, and color painting. Emphasis is placed on learning the powerful features of Adobe Photoshop for manipulating images and ways to integrate image editing into multimedia applications. Credits: 1

COMM116 Desktop Publishing Frequency: A Five week mini-course introducing the use of desktop computers to prepare and produce print and electronic publications such as newsletters, brochures, charts, magazines, and books. Material covered includes page design and layout, typography, integrating graphics and text software, pre-press, and professional publishing practices. Credits: 1

COMM118 Desktop Audio Frequency: A Learn to create and edit audio on a MacIntosh computer. Work with the latest audio software and hardware for hard disc recording and CD production techniques in a desktop computer environment. Credits: 1

COMM120 WCVFIWDVL, WNYF, ACA Operations Frequency: A Extracunicular participation in the staffing of the college's radio station, WCVF, and WDVL; television station, WNYF; or department societies. Credits: 0

COMM155 Rhetoric of Vision and Sound Frequency: A A foundational course for communication students. Grounds students in close attention to sight and sound and in basics of perceptual processes. Explores the ways in which media code images and sound in order to communicate ideas and emotions. Credits: 3

COMM199 Communication Orientation Frequency: B A course designed to introduce new majors to the department, and faculty, and to suggest areas of study and activity. Credits: .5

COMM200 Electronic Media Writing Frequency: A Writing for the ear and writing in relation to visual images. Weekly writing exercises and discussions relative to audio and video news, documentary, sports, advertising and other non-fiction formats. Prerequisite Courses: ENGL 100 Credits: 3

COMM201 Rhetoric and Criticism

Frequency: A

Study of human discourse (oral and mediated) as a rhetorical communication process from an historical perspective. Developments in rhetorical and western intellectual thought will be examined for their influence and contributions to rhetorical theory. The main goal of the course is to develop knowledge of and ability to apply rhetorical thought in the analysis of messages. Prerequisite Courses: COMM 101 Credits: 3

COMM221 Interpersonal Communication Frequency: A Focuses on the description and explanation of relationship development. Emphasis on the analysis of communicative behavior and its role in interpersonal relations. Examines the functions of verbal and nonverbal messages, the characteristics of communicative processes, and the link between communication and various social and psychological variables. Uses the laboratory method for learning communication skills. Prerequisite Courses: COMM 101 Credits: 3 COMM222 Principles of Public Relations Frequency: A Students learn the basic theories, history, ethical codes, and practices of public relations: how to write according to Associated Press style: and also how to prepare basic written documents such as news releases and news advisories. Prerequisite Courses: COMM 101 Credits: 3 COMM235 Introduction to Business Communication Frequency: A This highly practical course focuses on the critical communication skills involved in effective written and oral communication while emphasizing applications of communication concepts in the world of business. Students will be able to engage in application exercises, build their exploratory skills, and confront problems of diversity. The course is cross-listed with BUAD 235. Credits: 3 COMM251 Audio Production I Frequency: A Introduction to audio production equipment and its operation. Focus on listening skills; sound design; developing an ability to understand and use sound effectively and the ethical use of persuasive techniques. Principles of writing for the ear examined and practiced; editing, announcing, and interviewing introduced. Prerequisite Courses: COMM 155 Credits: 3

COMM255 Television Production I Frequency: A Basic skills in studio production techniques: lighting, camera work, shading, film-chain operation, audio setup and monitoring, videotape recorder operation, floor management, and technical directing. Final projects require students to work in teams to produce and direct their own programs. Prerequisite Courses: COMM 155 Credits: 3

COMM295 Communication Research Methods Frequency: B Study of both qualitative and quantitative approaches to inquiry and their applications in theoretic and applied communication research. Emphasis will be devoted to basic statistical analysis and interview and survey methods as they apply to evaluating communication practices and assessing communication needs. Prerequisite Courses: COMM 101 Credits: 3 COMM301 Group Communication Frequency: B This course will study communication in the small task group emphasizing communication in decision-making and problem solving. Course instruction will review theories that explain the role of communication in group maintenance, cohesion, conflict management, leadership, socialization, and personality management. Attention will be given to the communication practices for conducting meetings, idea generation, goal setting, project analysis and group discussion formats. The goal of the course is to develop proficiency in assessing group situations by applying communication theory and practices to maximize group effectiveness, productivity, and member satisfaction. Prerequisite Courses: COMM 221 Credits: 3 COMM310 Language and Communication

Frequency: B Provides an understanding of the relationship between language and communication, or of the role language plays in communication. Language is viewed from the following three perspectives: (a) language is a system of symbols: (b) there is an interaction between language and thought; and (c) language embodies action. Prerequisite Courses: COMM 221 Credits: 3

COMM312 Multimedia Integration Frequency: A Course concentrates on authoring multimedia projects which integrate graphics, animation, digital video, and audio. It combines both multimedia theoty and production. Students will learn how to structure information, anticipate user experience and create transparent interfaces. Prerequisite Courses: COMM 112 or COMM 114 or COMM 116 or COMM 118 or COMM 351 or COMM 354 or MEDA 120 Credits: 3

COMM314 Multimedia Supervision Frequency: A Course trains students to be proctors in the Sheldon Lab. . Through class workshops students will become familiar with the basics of the MAC operating system and with all of the software applications in the Sheldon Lab. Students will gain experience in supervising a computer lab. Must be taken concurrently with COMM 475. Section 7. Communication Studio Supervision. At least one of the prerequisite courses listed or consent of instructor. Prerequisite Courses: COMM 110 or COMM 112 or COMM 114 or COMM 116 or COMM 118 Credits: 1

COMM320 WCVFIWDVL, WNYF, ACA Management Frequency: A Extracurricular participation as a manager on the elected board of directors of the college's radio stations, television station, or Applied Communication Association. Credits: 0

COMM322 Public Relations Writing Frequency: B Students learn basic research and planning principles associated with public relations writing and how to prepare an assortment of public relations documents. AP style is reinforced and students learn how to construct news releases, media advisories, fact sheets, position statements, features and fliers. Students will begin pottfolio buildina. Prerequisite Courses: COMM 101 and COMM 222 Credits: 3

COMM325 Performance of Electronic Media Frequency: D A course designed to aid people who plan to appear on television or radio as artistic performers or presenters of information or persuasion. Emphasis will be placed on appearance, vocal analysis, script reading and movement. Practical experience in the college's television and radio studios. Credits: 3

COMM344 Public Relations Case Analysis Frequency: B Analysis of classic and contemporary public relations cases in industry, labor, education, government, social welfare and trade associations. Prerequisite Course: COMM 222 Credits: 3

COMM350 Telecommunication Technology Frequency: C Examination of the historical, technical, economic and regulatory status of communications technologies such as cable television, satellites, telephone, and computer communications. Discussion of general communication systems theory of video, audio and data communication including analog and digital signal transmission. Prerequisite Courses: COMM 102 Credits: 3

COMM351 Intermediate Radio Production Frequency: A Refining skills and techniques acquired in COMM 251; more emphasis on announcing and interviewing; understanding the ethical and legal perspectives of broadcast material; introduction to the design, scripting, production and promotion of programs. Prerequisite Courses: COMM 251 Credits: 3

COMM354 Video Field Production Frequency: A Basic skills and techniques for shooting video outside the studio in ENG and EFP configurations, and for editing on control track and non-linear video editing systems. Camera, lighting, sound and editing skills applicable to news, documentary, narrative, and art or music video. Prerequisite Courses: COMM 255 Credits: 3 COMM357 Corporate Video Frequency: D

Design and production of internal communications, promotional programs and training utilizing video in the corporate setting. Instructional Systems Design approach to training. Prerequisite Courses: COMM 366 Credits: 3

COMM358 Television News Frequency: B Electronic news gathering and studio news techniques in the context of a weekly news program. Legal and ethical issues in news gathering. Prerequisite Courses: COMM 354 Credits: 4 COMM359 Special Topics in

Media Frequency: D In-depth investigation of some area of media not fully covered in other courses. Credits: 1-3

COMM360 Mexican Cinema/Video Frequency: D The purpose of this course is to look at Mexico's Cinema and Video in terms of its historical context, its situation within a culturally diverse people, its internal and external controls and articulated and underlying cultural and political issues. Examples are drawn from the entire history of Mexican Cinema, with an emphasis on the "Golden Age" and the '90s. The importance of video in developing independent voices apart from the state controlled mass media will be explored. Students will write research papers and short reaction papers and give classroom presentations. Junior or Senior status.

COMM361 Script Writing Video/Film/Radio Frequency: B Techniques of developing concepts, treatments, outlines and scripts for dramatic fictions in the media of video, film and radio. Emphasis on traditional, modern and post-modern dramatic structure with units on character, dialogue, setting, visual narration, etc. Prerequisite Courses: COMM 251

Credits: 3

or COMM 255 or ENGL 260 or THEA 121 or THEA 123 or THEA 220 Credits: 3

COMM366 Postproduction Frequency: A A balance between editing concepts such as continuity, pacing, dramatic focus, etc. and editing skills such as A/B SMPTE code, signal monitoring, and digitized non-linear techniques. Students will learn the rules and methods by which an editor constructs fiction or a representation of actual events. Applicable to video or digital film. Weekly editing assignments. Lab required. Prerequisite Courses: COMM 354 Credits: 4 COMM373 Gender and

Communication Frequency: D Using a variety of theoretical models and critical approaches, students examine everyday communication practices to identify how gender, communication and culture create a complex and dynamic web of meaning with significant implications for individuals and society. Prerequisite Courses: COMM 101 or WOST 201 Credits: 3

genres from a communication perspective. Emphasis is placed on applying critical perspectives to the criticism of print and electronic media, especially in film, radio and Prerequisite Courses: COMM 102 and COMM 155 and COMM 201 Credits: 3 COMM379 Persuasion Frequency: B Examination of a wide body of humanistic, and social scientific literature concerning persuasion and persuasive techniques. Emphasizes evaluation and potential application of persuasion theory in communicative transactions. Prerequisite Courses: COMM 101 and COMM 105 Credits: 3 COMM385 International Media Frequency: B An introduction to the study of international and domestic media systems around the world, Students will understand and appreciate how different countries and cultures use the media in unique ways and learn of different systems of ownership, financing, regulation, and programming. Key international media issues will also be discussed. Media examples (primarily films) will be used to show how cultures are portrayed by their media,

COMM375 Media Criticism

Study of selected theories and

methods of criticism relevant to the evaluation of mediated message

Frequency: D

COMM395 Radio News Frequency: C Theory and practice of radio journalism including writing and reporting news and journalism law and ethics. Students produce weekly radio newscasts during the second half of the semester. Prerequisite Courses: COMM 351 Credits: 4

Credits: 3

COMM400 Broadcast Station Operation Frequency: C Analysis of the various techniques and problems involved in management of radio and television stations. Topics examined include general theories of management, audience research, programming, sales, business and station ethics. Prerequisite Courses: COMM 102 Credits: 3

COMM420 Media Law and Ethics Frequency: A Assessment of the regulatory framework and major legal issues of the mass media. Examination of ethical issues in the media as well as principles and concepts of ethical theory. Prerequisite Courses: COMM 102 Credits: 3

COURSE DESCRIPTIONS 121

COMM422 Public Relations Management Frequency: B Public Relations course designed to teach management and planning skills. In this course students will develop a campaign proposal from conception (or RFP) through development of materials and presentation to the client. Prerequisite Courses: COMM 322 Credits: 3 COMM430 Communication Theory Frequency: B Provides a comprehensive

Provides a comprehensive investigation into various theoretical and metatheoretical perspectives which currently direct theory building and research in communication. Emphasis on critical thinking as literature in the field is investigated and evaluated in light of accepted scientific criteria. Prerequisite Courses: COMM 221 Credits: 3

COMM441 Multitrack Radio Production Frequency: B Examination and practice of advanced sound design, production with ancillary equipment, and multilack recording techniques for broadcast applications. Prerequisite Course: COMM 351 Credits: 3

COMM451 Radio Documentaries Frequency: C Exploration and execution of steps involved in writing and producing a documentary: preliminary research, program concept, aesthetic and ethical issues, target audience, outline, research, interviews, treatment, script, and production. Prerequisite Courses: COMM 351 Credits: 4

COMM452 Video/Film Documentaries Frequency: B To be taken as first of two semester sequence continuing with COMM 462 or as stand alone critical course. Analysis, research and planning of documentaries. Study of examples of key video and film documentary types with emphasis on makers' point of view: concept, structure, development, ethical issues. Research and planning for projected documentaries. Funding strategies. Demonstrations of shooting techniques. Prerequisite Courses: COMM 155 and COMM 354 Credits: 4

COMM454 Fiction Video/Film I Frequency: B A production oriented critical course. Script analysis, analysis of films and videos representing several dramatic genres from both traditional critical and production analysis points of view. Unit on directing actors. Script research, visualization and planning for future productions. Prerequisite Courses: COMM 155 and COMM 354 Credits: 4 COMM456 Radio Programming/Production Frequency: C Theory and practice of programming and promoting a radio station: formats, sources, techniques; and development and production of a weekly radio series. Prerequisite Courses: COMM 351 Credits: 4 COMM457 Television Apprenticeship Frequency: A Provides a variety of experience in both studio and field production. Simulation of actual work situation with weekly assignments. Requires commitment to responsibilities and substantial production skills. Prerequisite Courses: COMM 255 Credits: 1-3

COMM458 Special Topics in Human Communication Frequency: D An in-depth seminar on an advanced topic in human communication. Topic announced in Course Offerings Bulletin each semester. Credits: 1-3

COMM459 Special Topics in Media Production Frequency: D Individual and/or small group learning; experience in-depth of some area of radio-television production not fully covered in other courses. Special attention to innovative and creative utilization of production techniques. Credits: 1-3

COMM460 Organizational Communication Frequency: B An advanced study of communication patterns in social organizations. In particular, communication environments within business and industry are analyzed. Application of procedures commonly used to evaluate and improve communication in organizations. Prerequisite Courses: COMM 101 Credits: 3

COMM462 VIdeo/Film Documentaries Ш Frequency: B Production, postproduction and distribution of video or digital film documentaries. Small teams produce the documentaries they planned in COMM 452. Emphasis on perfecting either mortgage or observational shooting techniques, on structuring before and through editing, and in achieving a development with a spine, related segments, climax, visual coherence and multi-layered sound visual relationships. Must be taken consecutively with COMM 452. Prerequisite Courses: COMM 366 and COMM 452 Credits: 4

COMM464 Fiction Video/Film II Frequency: B Production, editing and distribution of fiction digital films in COMM 454. Emphasis on single camera, multiple take methods. Students all learn one or more production roles for a complex digital film with high production values. Must be taken consecutively with COMM 454. Prerequisite Courses: COMM 366 and COMM 454

Credits: 4 COMM465 Intercultural Communication Frequency: B An advanced course dealing with the problems and processes of communication in various domestic and international settings. Emphasis on personal aspect of communication, that is, what happens when people from different cultures interact face-to-face. Attention given to the improvement of intercultural communication skills.

Prerequisite Courses: COMM 221 Credits: 3 COMM475 Communication/Studio

Supervision Frequency: A Advanced students are given opportunities to demonstrate knowledge of and practice application of skills in educational setting or specific subjects. Credits: 2 - 3

COMM480 Communication Internship Frequency: A Participation in off-campus professional, subject-related experience. Requires a Learning Contract proposal prepared in consultation with agency representative and with faculty sponsor describing experience, its relationship to course of study, and how it will be monitored and evaluated. Internships are graded satisfactory/unsatisfactory. Proposal must be approved in advance by internship coordinator in communication department. Appropriate courses in specialization are required. Credits: I - 15

COMM490 Independent Study Frequency: A Approved study of particular aspect of communication, or participation in approved project not otherwise available through course work. A lab fee may be assessed if project is using department equipment. Credits: I - 15

Criminal Justice

CRMJ100 Introduction to Criminal Justice Frequency: B An introduction to the organization and activites of the U.S. criminal justice system. Topics will include: criminal law, policing, courts, and corrections. Credits: 3

CRMJ310 Law Enforcement Policy and Practice Frequency: B An examination of the structure and functioning of police and police organizations in the United States. Topics covered include patrol, police discretion, ethics, police community relations and police accountability. Prerequisite Course: CRMJ 100 Credits: 3

CRMJ320 Crime and Crime Theory Frequency: B This course will examine the types of criminal behavior and crime patterns, the social and organizational context of crime, statistical information about crime and various theories of crime. Prerequisite Courses: CRMJ 100 and SOC 116 Credits: 3

CRMJ400 Senior Seminar Frequency: B A capstone course in which students will do readings, discussions and analysis of current topics of interest in the field of criminal justice. Using primary sources, students will prepare and present in depth examinations of specific issues Senior standing in the major required. Credits: 3

Computer Science

CSIT100 Freshman Seminar Frequency: D Introduction to computing environments available on campus; email, Internet access and web; campus computing policies; computing and information technology ethics; other campus resources and their effective use; building a support network with faculty, staff and peers; improving study skills inside and outside the classroom. Co-requisite: Freshman Standing.

CSIT104 Introduction to Microcomputer Software Frequency: A Introduction to microcomputers; overview of MS-Windows; elementary concepts and operations of spreadsheets and database management systems; analysis of a variety of problems, their design, and implementation of solutions using commercially Windows-based available software. Prerequisite: Three units of high school mathematics. Credits: 3 CSIT105 Visual Basic I Frequency: A Object-oriented and event-driven programming, concepts using Visual Basic (VB); VB development environment; intrinsic controls and programming structures: data types,

declarations, input/output, decision-making and loops; formatting; functions and subroutines. Prerequisite: Three units of high school mathematics. Credits: 3

CSIT106 Scientific Programming Using C++ Frequency: B Scientific problem solving; structured program development: simple algorithm design, arithmetic operations, data types and their declarations, control statements, loops, input and output, arrays, functions; mathematical functions and round off error estimation. Applications to engineering, sciences and mathematics. Credit will not be given for both CSIT 106 and CSIT 121. Prerequisite Courses: MATH 120 or MATH 122 Credits: 3

CSIT107 Web Programming I Frequency: A An introductory course in client-side web technologies: HTML, cascading style sheets and JavaScript; designing and publishing a web site. Other topics include history of the internet and world-wide web, HTML editors, and graphics. Credits: 3

CSIT120 Computer Science Overview Frequency: B

A comprehensive overview of the scope and dynamics of computer science. Survey of the field of computer science. Topics include: history of computing, computer organization and components, operating systems, programming languages, introduction to programming and program development, data structures, problem solving, software engineering, computer ethics, and computer applications. Prerequisite: NYS Regents Course III or MATH 104. Credits: 3

CSIT121 Computer Science I Frequency: A Problem solving, algorithm design and development, structured programming; elementary data types; expressions, I/O functions and control structures; functions: scope rules, pass by value, pass by reference; built-in functions; arrays; strings; structures: elementary sort and search algorithms; files. Credit will not be given for both CSIT 106 and CSIT 121. Prerequisite: NYS Regents Course III or MATH 104 Credits: 4

CSIT205 Visual Basic II Frequency: B Advanced Visual BASIC programming techniques; Active X controls, multiple forms, file I/O, interacting with databases, and error handling; Windows API calls and Windows registry functions; and advanced event-driven business applications. Prerequisite Courses: CSIT 105 or CSIT 121 Credits: 3

CSIT207 Web Programming II Frequency: B An advanced course in server-side web programming. Topics include: cookies, file and database access, portals and web applications; CGI programming using current technologies. Prerequisite Courses: CSIT 107 or equivalent experience Credits: 3

CSIT221 Computer Science II Frequency: A Abstract data types; static and dynamic data structures: recursion; recursive programming; class concepts, encapsulation: linked lists; doubly linked lists; stacks, queues and their implementations and applications; binary trees; binary search tree; tree traversals; polymorphism and inheritance Prerequisite Courses: CSIT 121 Credits: 4

CSIT225 Java Programming Frequency: B Basic programming constructs: primitive types, expressions, and statements; class hierarchies; elementafy predefined classes such as String and Math; object-oriented programming: packages and interfaces; exception handling; I/O and file access; graphics; applets; audio processing and other applications. Prerequisite Courses: CSIT 221 Credits: 3

CSIT231 Systems Programming Frequency: A Introduction to Unix and Unix utilities; shell programming; C programming language; Unix system calls for process communication and file structures: X-windows, windows managers: resource management, X-lib, and programming with toolkits and widget classes. Prerequisite Courses: CSIT 221 Credits: 3

CSIT241 Discrete Mathematics for Computer Science I Frequency: A Study of mathematical topics needed for further study of computer science at the advanced undergraduate level, including: logic, sets, proof techniques, matrices, basic number theory, modular arithmetic, functions, linear transformations, relations, basic combinatorics. Credit will not be given for both CSIT 241 and MATH 210. Prerequisite Courses: CSIT 121 and MATH 121 or MATH 123 Credits: 4 CSIT242 Discrete Mathematics for Computer Science II Frequency: B A continuation of CSIT 241. Topics include combinatorics, digraphs, and trees; recurrence relations; switching circuits and logic gates; automata, grammars and languages; other topics as time permits. Prerequisite Courses: CSIT 221 and CSIT 241 or MATH 210 Credits: 4 CSIT300 Internship in Computer Science Frequency: A Participation in an approved professional experience in the area of computer science. Students must submit a proposal describing the work experience, its relationship to subject matter in computer science, and how it will be monitored and evaluated. Permission of the department required. Credits: 3 - 12 CSIT305 Computer Laboratory Assistantship Frequency: A Non-credit course for students interested in performing computer-related services for the Computer and Information Sciences program. Duties include: proctoring in computing laboratories; assisting with the labs in CSIT 121 or CSIT 221; helping the faculty director and/or systems manager with basic laboratory maintenance. Grading is on an S/U basis. Permission of the department required. Credits: 0 CSIT311 Assembly Language and Computer Organizations Frequency: A Introduction to the basic concepts of computer architecture and machine instructions repertoire; memory access and storage: instruction execution; assembly language; computer organization; levels of computer structures; data representation and transfer; digital arithmetic; memory structure and addressing methods; cache; secondary memory structure and organization.

Prerequisite Courses: CSIT 121 Credits: 3 CSIT321 Paradigms of Programming Languages Frequency: A Brief history of programming languages; language design issues; syntax and translation; data types; sequence control; data control; the procedural paradigm; the functional paradigm: the logical paradigm. Prerequisite Courses: CSIT 221 Credits: 3

CSIT341 Data Structures Frequency: A Review of object-oriented programming: introduction to algorithmic complexities; sorting; generalized lists and list processing; priority queues; trees: (m-ary trees, heaps, balanced trees, tries): hashing: graphs and graph algorithms; memory management; applications of these data structures. Prerequisite Courses: CSIT 221, and CSIT 241 or MATH 210 Credits: 3 CSIT351 Business Systems Development Frequency: B Review of business programming language principles and techniques; interfacing with computing environment; sorting, table handling, indexing and searching: preparation and handling of data; file organization,

and file update; business systems analysis, design, and implementation; introduction to business information systems. Prerequisite Courses: CSIT 205 Credits: 3

CSIT390 Directed Study Frequency: D An intensive project-oriented course utilizing emerging technologies. Prerequisite Courses: CSIT 341 Credits: 1-3 CSIT400 Directed Independent Study of Selected Topics Frequency: D Independent study of a selected list of readings approved by a faculty advisor. Permission of the department required. Credits: 1-3 CSIT413 Computer Architecture

Frequency: B Review of computer organization; digital logic; components of micro, mini, and mainframe architectures: architecture design principles: architecture classes: microprogramming; stack machines: parallel computers; pipeline processing: vector processors; VLSI and systolic architectures: data flow architectures; RISC machine: performance evaluation: architecture design languages; application and high level language oriented architectures. Prerequisite Courses: CSIT 311 Credits: 3

CSIT425 Software Engineering Frequency: B Basic concepts and major issues of software engineering; current tools and techniques providing a basis for analysis, design, development, maintenance, and evaluation of the system; structured walkthrough, testing; verification and validation; technical, administrative, and operating issues: privacy, security, and legal issues; developing a team project using software engineering principles. Prerequisite Courses: CSIT 341 Credits: 3

CSIT431 Introduction to Operating Systems Frequency: A System software organization, purpose and functions of computer operating systems, batch processing systems; translation, loading and execution; serial and parallel I/O processing; spooling; interrupt facilities: memory protection and management; file systems; multi-access and special-purpose systems; process scheduling; accounting procedures and resource management; classical and popular operating systems. Prerequisite Courses: CSIT 231, CSIT 311, and CSIT 341 Credits: 3

CSIT433 Compiler Construction Frequency: C Finite automata; languages and grammars; review of language structure, translation, linking, loading, execution; run-time storage organization; compilation of simple structures; compiler design principles, organization and implementation; lexical analysis; symbol tables; parsers and semantic analysis; code generation and optimization; error diagnostics. Prerequisite Courses: CSIT 311 and CSIT 341 Credits: 3

CSIT435 Data Communication and Networks Frequency: B Teleprocessing; data communication system components: media, hardware and software; network architectures and topology; communication protocols and interfaces; functional layers; line utilization, switching and error handling; network interfaces; routing and flow control; point-to-point, broadcasting and local networks theory and current practices; reliability and security, encryption and compression; network programming. Prerequisite Courses: CSIT 31 1 Credits: 3

CSIT437 Advanced Operating Systems Frequency: B Review of contemporary operating systems, OS design principles and strategies; examination of communication and synchronization protocols; concurrent processes and process scheduling including their statistical analysis; distributed operating systems; client-server computing model; distributed resource management; multiprocessor OS: failure recovery and fault tolerance; data security: applications. Prerequisite Courses: CSIT 431 Credits: 3

CSIT441 Analysis and Design of Algorithms Frequency: C Introduction to design and analysis of algorithms: time and space complexity, verification of correctness; advanced algorithm design strategies: iterative, divide and conquer, greedy method, dynamic programming, branch and bound, etc.; specific examples drawn from sorting, searching, graph problems, matrices, polynomial arithmetic, cryptography: hard problems and approximation algorithms: Knapsack, bin packing, and graph coloring problems, etc. Prerequisite Courses: CSIT 242 and CSIT 341 Credits: 3

CSIT443 Theory of Computation Frequency: C Formal languages and grammars; context free and context sensitive grammars; pumping arguments; closure properties; decision algorithms; Turing machines; computability and decidabilty; halting problem; elementary complexity theory. Prerequisite Courses: CSIT 242 and CSIT 341 *Credits: 3*

CSIT451 Introduction to Files and Databases Frequency: A Large scale information organization; basic concepts of file management techniques; storage hierarchies, external storage devices: mass storage systems; common file structures and organization methods; physical file organization: list, indexed, and tree-structured file organization methods; file systems: concepts of data modeling; data languages; search, retrieval and processing methods; introduction to relational databases and database management systems. Prerequisite Courses: CSIT 341 Credits: 3

CSIT455 Relational and Object Databases Frequency: B Review of data modeling and databases: entity/relationship and relational models; relational algebra: relational databases: database architecture; data integrity: SQL design: SQL and QBE languages; functional dependencies: normalization: data protection and SQL concurrency; data and database security: object-oriented databases: distributed and client/server systems; other advanced topics. Prerequisite Courses: CSIT 341 and CSIT451 Credits: 3

CSIT456 Information and Decision Support Systems Frequency: C Information and computer information systems: information hierarchy; decisions and decision-making; functional components of a decision support system; intelligent/knowledge-based decision-making and knowledge management; architecture of decision systems; distributive and group decision-making: executive information systems; expert and fuzzy systems; reasoning and explanation: knowledge elicitation and representation; logistics and long-term decision-making. Prerequisite Courses: CSIT 341 and CSIT 351 Credits: 3

CSIT461 Introduction to AI and Knowledge Frequency: C Engineering Overview of artificial intelligence tools and techniques; searching methods: applications of AI: game playing, expert systems and knowledge based systems; components of a knowledge based system: knowledge acquisition, representation, and formalization; numerical and symbolic processing; information theoretic and decision theoretic algorithms: inference engine: machine learning: reasoning and explanation; basic concepts and major issues of knowledge engineering; current tools and techniques for analysis, design, development of the knowledge based systems; applications in robotics, medical diagnosis, smart decision systems, etc. Prerequisite Courses: CSIT, 341 Credits: 3

CSIT462 Computer Graphics Frequency: B Introduction to Computer Graphics; display memory; generation of points, vectors, shapes, objects, etc.; raster and geometric graphics: interactive and passive graphics; graphics peripherals; analog and digital images and analog/digital conversion; mathematics of 2-D and 3-D transformations: applications in animation, computer aided design and instruction; hypertext and multimedia: dialog design; user-interface. Prerequisite Courses: CSIT 242 and CSIT 341 Credits: 3

CSIT463 Introduction to Digital Image Processing and Computer Vision Frequency: C Introduction to digital image and signal processing, computer vision and pattern recognition; image acquisition, registry and display: elementary image processing algorithms: sampling, preprocessing, smoothing and sharpening: Fourier optics; orthogonal transformation; filtering; image encoding and restoration; analog and digital images and image processing systems; feature extraction and selection; elementary pattern classification and vision systems; robotics; machine learning. Prerequisite Courses: CSIT 341 Credits: 3 CSIT490 Seminar on Selected Topics Frequency: D Studies, discussions, workshops and seminars on selected topics in computer science. Written reports and a formal presentation are required. Permission of the instructor required. Prerequisite Courses: CSIT 341 Credits: 1-3 CSIT497 Computer Science Thesis Frequency: D Faculty-supervised research on a computer and information sciences topic of interest to the faculty member and the student. Minimum of 80 hours of productive

work required. A thesis documenting problem statement, approach, methodology, and results will be submitted upon completion. Permission of the department required. Prerequisite Courses: CSIT 431 *Credits: 3* CSIT499 Computer Science Project Frequency: D Faculty-directed work on a computer and information sciences project of interest to the faculty member and student. Minimum of 80 hours of productive work required. A report of presentation discussing approach, methodology, and results will be submitted upon completion. Permission of the department required. Prerequisite Courses: CSIT 431 Credits: 3

Dance (DANC)

DANC105 Folk Dance Frequency: B Designed to cover the basics of folk dancing in many countries of the world. *Credits: 1*

DANC106 Square Dance Frequency: B An introductory course for the beginning square dancer. Emphasis is on modern square dancing, although other forms are covered. *Credits:* 1

DANC110 Dance Productions Frequency: A Designed to give practical experience in all aspects of dance productions including technique classes, rehearsals, lighting and costume designs, crew work, and stage managing. *Credits: 0*

DANC111 Modern Technique I Frequency: B Introductory course in modern dance for the novice, covering various techniques. Attendance at all dance concerts on campus required. *Credits: 2*

DANC121 Beginning Tap Dance Frequency: B An introductory course in tap dance. *Credits: 2*

DANC122 Tap Dance II Frequency: B A continuation of DANC 121. Emphasis will be on artistic execution of dance combinations. Tap shoes and attendance at all danceconcertsoncampus required. Prerequisite Courses: DANC 121 *Credits: 2* DANC131 Beginning Jazz Dance

Frequency: B An introductory course in jazz dance. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 111 *Credits: 2* DANC132 Jazz Dance II Frequency: C A continuation of DANC 131 with emphasis placed on artistic performance. Attendance at all danceconcertsoncampus required. Prerequisite Courses: DANC 131 Credits: 2

DANC211 Modern Technique II Frequency: B Modern dance technique class for the student who has had DANC 111 or permission of instructor. Martha Graham technique emphasized. Outside practice strongly recommended. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 111 Credits: 2

DANC221 Beginning Ballet Frequency: B A beginning class in classical ballet technique. Strongly recommended for Musical Theatre majors. Credits: 2

DANC222 Ballet II Frequency: B A continuation of the classical ballet technique offered in DANC 221 with special attention to alignment, execution and mastery of the classical movement repertoire. Strongly recommended for Musical Theatre majors. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 221 Credits: 2

DANC223 Ballet III Frequency: C A continuation of classical ballet technique offered in DANC 222 with emphasis on pointe work and partnering. The Russian Vaganova and the Italian Cecchetti method of classical ballet will be taught. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 222 Credits: 2

DANC231 African-Caribbean Dance Frequency: C An introductory course in the structure and design of African and Caribbean dance techniques. This course will illustrate the linkage between African and Afro-American dance, music, and rhythmic styles. Credits: 2

DANC241 Dance Improvisation Frequency: D This course involves creative movement problem-solving through the study of basic elements in dance and choreography. The class will perform studies ranging from human emotion to abstract shape and design. Attendance at some campus productions is required. Prerequisite Courses: DANC 111 Credits: 2 DANC3II Modern Technique III Frequency: B Continuation of DANC 21 1 for intermediate dancer. Humphrey-Weidman, Limon and Luigi jazz techniques covered. Outside practice strongly recommended. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 211 Credits: 2

DANC321 Dance for the Musical Theatre

Frequency: C Designed to familiarize the intermediate dancer with the techniques of musical theatre ballroom dance for the stage; jazz and tap techniques are also covered. Films and video tapes will be utilized. Dances for musicals will be taught. Prerequisite Courses: DANC 121 and DANC 211 Credits: 2 - 3

DANC341 Selected Topics in Dance Frequency: A Independent Study in dance-related topics. Credits: 1-3

DANC353 Dance History Frequency: D The history and philosophy of dance from ancient times until the present. Also some examination into the criticism and evaluation of dance. Attendance at all dance concerts on campus required. Credits: 3

DANC363 Choreography I Frequency: B Introductory course in dance composition covering such topics as space, design, rhythm, dynamics, sensation, and form. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 21 1 Credits: 3

DANC364 Choreography II Frequency: C Continuation of Choreography I. Covers pre-classic dance forms, as well as primitive, archaic, medieval, introspective, jazz, Americana, cerebralistic, and impressionistic dance forms. Attendance at all dance concerts on campus required. Prerequisite Courses: DANC 363 Credits: 3

DANC461-462 Practicum in Dance Frequency: A Teaching Beginning Technique class. By audition only. Credits: 3

DANC561-562 Practicum in Dance Frequency: D Internship in dance teaching for graduate dance students. By audition only. May be repeated. Credits: 3 Distance Learning (DIST) DIST399 Distance Learning Special Topics Frequency: B Description: Topics vary from semester to semester and are listed in the Course Uffereings Bulletin. Credits: 3

Economics (ECON)

ECON101 Introductory Economics Frequency: D An introductory study of the workings of economic society. Provides an overview of the conditions and problems of the American and other economic systems. Encompasses both microeconomics (e.g., supply and demand, cost and profit, competition and monopoly) and macroeconomics (e.g., unemployment and inflation, fiscal and monetary policies). Emphasis is on basic economic concepts institutions, and broad historical sweep Credits: 3

ECON102 Current Economic Issues Frequency: D An introduction to current economic problems and public policy issues and the techniques used by economists to address these issues. The topics covered in a semester may vary, but will include issues such as: environmental quality and pollution control; poverty and welfare reform; big business and government regulation; labor market discrimination; health care reform; taxation, government spending, and the national debt; international trade policy; inflation and unemployment. Credits: 3

ECON200 Fund. of Statistics for Business and Economics Frequency: A An introductory study of statistical methods as applied to business and economic problems. Topics covered include: frequency distributions, measures of central tendency, measures of dispersion, probability, probability distributions, sampling distributions, estimation, statistical inference, and simple linear regression. Emphasis on the use and abuse of statistics. Credits: 3

ECON201 Principles of Macroeconomics Frequency: A Study of the organization and functioning of the contemporary American economic system with emphasis on the twin problems of unemployment and inflation. Topics covered include aggregate income and employment, money and banking, monetary and fiscal policies, and international trade and finance. Credits: 3 ECON202 Principles of Microeconomics Frequency: A Study of the organization and functioning of the contemporary American economic system with emphasis on the problems of resource allocation. Topics covered include supply and demand, elasticity, price and output determination in various market situations, competition and public policy, income distribution, and alternative economic systems. Credits: 3

ECON300 Statistical Analysis Frequency: B Continuation of ECON 200. A study of the techniques and tools used in analyzing business and economic data with equal emphasis on interpretation of results while concentrating on estimation techniques. Simple and multiple linear regression, non-parametric tests, analysis of variance, time series, and surveying are discussed, although topics will vary depending upon students' needs. Use of SPSS/SAS computer software packages. Prerequisite Courses: ECON 200 Credits: 3

ECON305 Intermediate Microeconomic Theory Frequency: B Analysis of economic behavior of consumers, producers, and markets. Major topics include utility and production theories, market structures (pure competition, monopoly, monopolistic competition, and oligopoly) and theories of factors of production, income distribution, resource allocation, and economic efficiency. Prerequisite Courses: ECON 201 and ECON 202 and MATH 120 Credits: 3

ECON310 Intermediate Macroeconomic Theory Frequency: B Study of the overall performance of an economy. A theoretical analysis of the determinants of employment, income, consumption, investment, the role of government, the general price level, wage rates and interest rates. An analysis of the impact of monetary and fiscal policies, within the framework of various contemporary aggregate models of the open economies, on economic activity. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3

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ECON312 Women in the Economy Frequency: C Exploration of the economic status of women in the United States. Studies the changing role of women in the American economy from colonial times to the present. Emphasis is placed on women's labor market experiences and how these experiences are explained by economic theory. A major part of the course stresses current economic issues and policies specifically aimed at women including poverty, welfare, labor market mobility, and the status of the family. Prerequisite Courses: ECON 101 or ECON 202 Credits: 3

ECON315 Money/Banking/Monetary Economics Frequency: B Study of money and the financial system. In particular, the operation, functions, structure and regulations of the banking system, and organization and functions of central banking. Special emphasis given to the study of monetary theories, monetary management, and the effectiveness of monetary policy. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3

ECON320 International Trade/Finance Frequency: B Study of international economic relations and international finance - determination of trade patterns and competitiveness, tariff and nontariff barriers, economic integration, multinational corporations, exchange rates, balance of payments problems and policies, and international monetary system. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3

ECON321 Multinational Corporations Frequency: C Economic analysis of the operations of multinational corporations and the implications of global production, resource allocation, and distribution of goods and services. Emphasis on capital and technology transfer, intercontinental flow of information, transaction costs, transfer pricing and tax policies. Prerequisite Courses: ECON 201 Credits: 3

ECON325 Labor and Employment Frequency: C Study of the public policy and theoretical bases of employer/employee relationships. Focus is on the economic behavior of employers and employees in response to the general incentives of wages, prices, profits, and working conditions, and on the legislative and policy treatments of this relationship in both unionized and non-unionized environments in both the public and private sectors of the economy. Prerequisite Courses: ECON 202 Credits: 3 ECON330 Public Sector Economics Frequency: C (formerly Public Finance) Analysis of governmental policies involving taxes and expenditures and how effectively these policies attain their objectives. Government investment decision criteria and public choice theory are discussed Prerequisite Courses: ECON 201 and ECON 202 Credits: 3 ECON335 Economic Development Frequency: C Problems of economic growth and development of less developed countries with emphasis on economic and noneconomic obstacles to growth and development, financing of development, strategy of development policy, development planning and project evaluation, industrial and agricultural development, and the role of international trade in growth and development Prerequisite Courses: ECON 201 and ECON 202 Credits: 3 ECON340 Urban and Regional Economics Frequency: D Study of the economics of urban and regional development. Emphasis on principles of regional analysis, location theories, population movements, urban base, problems of urban renewal, economics of poverty, transportation, pollution, and housing. Prerequisite Courses: ECON 202 Credits: 3 ECON345 Comparative Economic Systems Frequency: B Comparative study of organization, operation and performance of some important economic systems. Emphasis on the socio-cultural and political environment, and on the institutional factors explaining the differences in the performance of various systems. Prerequisite Courses: ECON 101 or ECON 102 or ECON 201 or

ECON 202 Credits: 3

ECON350 Managerial Economics Frequency: C Microeconomic analysis applicable to the problems of businesses with emphasis on the determination of prices, outputs and inputs. Other topics include demand and cost measurements, forecasting, and cash flow analysis. The course utilizes different constrained optimization and quantitative techniques. Prerequisite Courses: ECON 202 and MATH 120 Credits: 3 ECON360 Health Care Economics Frequency: D Application of economic analysis to the health care industry. Emphasis on the demand and supply of health care services, and private and group health insurance (HMO, PPO, Medical Care, Medicaid). Analysis of for-profit and non-profit production of health care services under different market structures. Other topics include problems of allocation of medical care resources and analysis of health care policies Prerequisite Courses: ECON 201 and ECON 202 Credits: 3 ECON370 Evolution of Economic Thought Frequency: D Study of the historical development of those ideas intended to provide a deeper understanding of present economic realities. Emphasis is placed on fundamental areas such as the economist's methodology, value and distribution theory, free trade, economic growth, and macroeconomics, and how these topics have been addressed by major thinkers in the field of economics. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3 ECON380 Environmenta/Natural Resource Economics Frequency: C Economic analysis of natural resource and environmental issues and policies. Social cost-benefit analysis, theories of externalities and intertemporal resource allocation and their application to renewable and exhaustible natural resources are emphasized. Topics include pollution control, efficient and equitable resource management, energy issues, ecological and environmental quality, and global

sustainability. Prerequisite Courses: ECON 202 Credits: 3 ECON381 Special Topics in Economics Frequency: D Examination of topics in economic issues, problems, theory and policy not covered in any other course offered by the department. Prerequisite Courses: ECON 201 and ECON 202 Credits: 3

ECON395 Comparative Human Resources Frequency: C Comparative study of labor market characteristics among U.S. Canada, Mexico, Japan, OECD countries and a selection of emerging market economies. Emphasis on those factors that enhance economic integration and influence human resource policies. Comparative policy analysis of medical care, immigration, employment training, minimum wages, work standards, unemployment insurance, retirement systems and collective bargaining. Prerequisite Courses: ECON 201 or ECON 202 Credits: 3

ECON400 Econometrics and Business Applications Frequency: C Analysis and application of regression covering topics on econometric problems and techniques of estimation (both single and multi-equation models). The science and art of econometric model building and forecasting with its wide application in finance, marketing, banking, and other fields in business and economics are discussed. Use of the computer is an integral part of the course. Prerequisite Courses: ECON 201 and ECON 202 and ECON 300 Credits: 3

ECON405 Industrial Organization Frequency: C Study of the sources and consequences of monopoly power in the U.S. economy. Deals with both the economic definitions and measures of market power and with the legal standard of monopoly; includes study of major court decisions that have shaped antitrust policy; also covers economic regulation as a response to monopoly power. Prerequisite Courses: ECON 305 Credits: 3

ECON425 Financial Markets/Institutions Frequency: C Study of the operation of the capital and money markets, determinants and structure of interest rates. Broad analysis of financial intermediaries, and regulation of the financial systems. Prerequisite Courses: ECON 315 Credits: 3 ECON430 Independent Study Frequency: A Individualized study under the supervision of a faculty member. Credits: 1-3

ECON450 Senior Seminar Frequency: B Application of research and writing skills to the critical analysis of selected broad current economic problems and issues, integrating several areas of study in economics and other disciplines. Prerequisite Courses: ECON 305 or ECON 310 Credits: 3

ECON480-481 Internship Frequency: A Provides students the opportunities to earn credits for professional experience gained through learning-by-doing techniques. Credits: 1-6

Education (EDU)

EDU100 Tutoring Theory Practice Frequency: A This course is designed to lead practicing tutors into an examination, through readings and discussion, of what tutoring is, why and how it works and what tutoring can and cannot accomplish in a college setting. Because the course is designed to run concurrently with practical tutoring, candidates need to apply to and be accepted by College Tutoring Services. Acceptance is based on transcript, faculty evaluation and interviews and takes place during the semester prior to that during which the course is taken Prerequisite Course: MATH 120 Credits: 1

EDU105 Introduction to Contemporary Education Frequency: A Introduction to childhood and early childhood education, its principles and practices. Organization of elementary schools, planning, teaching styles, classroom management, and instructional materials are among the topics considered. Direct experiences with children are an integral part of the course. Prerequisite: Admission into professional education major Co-requisite Course: EDU 106 Credits: 3

EDU106 Introduction to Contemporary Education Field Experience Frequency: A Provides participants an opportunity to observe classroom operations, observe and describe the role of the teacher, and work with individual and small groups of candidates on a teaching project. Co-requisite Course: EDU 105 Credits: 0 EDU110 Education Literature/Composition Frequency: A An integration of how one writes and how one can effectively teach writing to students. Using the writing workshop approach, the course examines principles, teaching methodologies, and techniques pertaining to the writing process from both the perspectives of writer and teacher of writing. Credits: 3

EDU200 Statistics Frequency: A Elements of probability theory; fundamental concepts and techniques of statistics with application. May not be repeated for credit. Credits: 3

EDU214 Introduction to Children's Literature Frequency: B Designed to assist candidates in becoming widely acquainted with the great wealth of trade (library) books and media available for today's children, preschool through middle school. Course content includes all literary types. Credits: 3

EDU215 Education in American Society Frequency: B Foundations course in the study of education. Introduction to social, historical, and philosophical foundations of education and the relationship between school and

society. Credits: 3

EDU218 Children's Literature in Literacy Instruction Frequency: D This course is an introduction to Children's Literature in Reading and includes a study of genre as well as discussion of literacy acquisition, reading instruction and use of children's literature for evaluation and remediation of reading difficulties. Credits: 3

EDU220 Child Development Frequency: D Development of the child from beginning of life: prenatal development through age 12. Study of physical, cognitive, social, emotional, and moral development of the child. Credit will not be given for both EDU 220 and EDU 225. Credits: 3 EDU221 Introduction to Early Childhood Education

Circiculum Frequency: D A history and philosophy of early childhood education. Theoretical perspectives influencing early childhood program models. Emphasis on observing, recording, and interpreting the behavior of young children in a variety of child care settings (Infant-Preschool). Credits: 3 EDU224 Adolescent Development Frequency: A Physical, mental, and emotional influences on the human growth periods in terms of habits, interests, and social adjustment. Factors in home and school that influence adolescent behavior and

personality. Credits: 3

EDU225 Developmental Psychology Frequency: A Orderly sequence of human growth and development. Principles of physical, intellectual, and personality changes emphasized along with procedures for evaluating relevant research. Credits: 3

EDU250 Introduction to the Exceptional Learner Frequency: A Introductory survey of nature, needs, and education of children who are exceptional because of intelligence, behavioral disorders, and/or physical development. Co-requisite Courses: EDU 251 Credits: 3

EDU251 Introduction to the Exceptional Learner Field Experience Frequency: A Candidates work directly with pupils with learning difficulties in area schools and agencies. Co-requisite Course: EDU 250 Credits: 0

EDU275 Introduction to the Teaching of Reading in the School Elementary Frequency: B Introduction to techniques, activities, and materials employed in teaching elementary school candidates how to read. Focuses on traditional texts and reading materials, as well as hands-on experience in applying microcomputers in the teaching of reading. The use of writing as a technique in the teaching of reading will also be employed. Specifically designed to prepare candidates for participation in elementary school classrooms. Credits: 3

EDU276 Foundations of Literacy and Integrated Technology in the Elementary School Frequency: A Overview of the processes.

Overview of the processes, involved in literacy acquisition and the instructional approaches that acknowledge current thinking. Relationship of reading and writing, and aspects of writing development and writing process appropriate to each stage of reading development. Topics: models of reading and writing, conceptual and methodological issues related to instruction and acquisition of reading, the role and use of technology in literacy instruction, assessment of candidates' reading and writing, diversity in reading acquisition the role of technology in facilitating reading and writing for diverse learners. Credits: 3

EDU305 Cultural and Linguistic Diversity in the Classroom Frequency: A An introduction to basic concepts, theories, and issues involving multicultural education, cultural diversity, and the educational system. Emphasis is on the development of a sound theoretical framework from which practical application to classroom situations will evolve. Candidates will teach, interact with, and/or observe children and youth from diverse cultural and linguistic backgrounds and employ a variety of teaching strategies. Prerequisite Course: EDU 105 Co-requisite Course: EDU 313 Credits: 3

EDU312 Infant and Toddler Care and Education Frequency: B This course focuses on children ages birth to age 3, with particular attention to their participation in center-based educational programs. Topics include infant/toddler development, appropriate curriculum in the relevant developmental domains, characteristics of quality education; environmental management; family considerations and relations Prerequisite Courses: EDU 105, EDU 220 or 225 Credits: 3

EDU313 Cultural and Linguistic Diversity Field Experience Frequency: A Candidates spend 7-8 weeks in elementary and secondary classrooms where they are paired with peers in order to use peer coaching and peer-assisted learning strategies with pupils. Candidates teach several lessons and incorporate multicultural concepts, including cultural awareness, tolerance and acceptance, cooperative learning, multiple intelligence theory, and multicultural literature. Co-requisite Course: EDU 305 Credits: 0

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EDU314 Developmental Learning Frequency: D This course is designed to provide candidates with an introduction to the cognitive and neurological foundations of language and learning. Through lectures, discussions and interactive exercises, we will explore the increasing sophistication with which young children explore their worlds. Discussion will focus on both theoretical models and scientific findings, with particular emphasis on techniques through which to stimulate active learning throughout early development. Credits: 3

EDU315 Early Childhood Curriculum II Frequency: D Emphasis on integrated curriculum planning to meet the developmental needs of the young learner (preschool to age 8). Candidates plan and implement teaching strategies and activities in an early childhood classroom setting. Field experience required. Prerequisite Course: EDU 221 Credits: 3

EDU321 Teaching in the Middle School Frequency: B Principles, materials, curriculum, and methods for teaching in the middle school. Required for certificate extension to middle school grades. Prerequisite: Childhood Education major and declaration of Middle School Extension Credits: 3 EDU326 Elements of Public School Law Frequency: D Basic study of school law as

applied to the organization of education from the federal and state perspective. Special attention is focused on the teacher and the law with respect to tort liability, due process, rights and responsibilities of teachers, candidates and parents. Impact of court decisions on the school. Credits: 3

EDU349 Educational Psychology Frequency: A Areas of psychology utilized in the teaching and learning processes. Analyzing and interpreting scientific data related to individual differences, growth, learning, group processes, and evaluation. Credits: 3

EDU351 Classroom Management and Learning Principles Frequency: D Examination of significant research in areas of human learning and motivation as they relate to effective instructional strategies. An investigation into how teachers can translate theories and research from such areas as achievement motivation, learner cognitive style, emotional climate of the classroom, concept learning, creativity, and problem-solving into constructive classroom action. Prerequisite Course: EDU 349 Credits: 3 EDU355 Learning and Behavior Disorders of Children Frequency: B Critical examination of the etiology of learning and behavioral disorders, and a review of effective treatments of management procedures. Etiological factors covered include the role of biology, the family and the school. Disorders reviewed include hyperactivity, attention deficit disorders, aggressiveness and depression. Emphasis is placed on implications for the potential classroom teacher Credits: 3 EDU360 Developmental Disabilities Frequency: D An examination of the etiology, characteristics, and psychological development associated with developmental disabilities. While focusing largely on mental retardation, the course is

retardation, the course is non-categorical in orientation. Particular attention is paid to techniques and strategies for integration of developmentally disabled children into the mainstream of education. Prerequisite Course: EDU 250 or equivalent Credits: 3

EDU390 Special Topics in Education Frequency: D Study of special areas in education not covered by existing courses. Content varies from semester to semester. Consult the appropriate Course Offerings Bulletin and department notices. Credits: 1-3

EDU402 Teaching Mathematics in the Elementary School Frequency: B Content, curriculum, materials, and procedures in teaching mathematics in the elementary school based on the National Council of Teachers of Mathematics (NCTM) recommendations and standards. Prerequisites: MATH 301, 302, Admission into Professional Year Co-requisite Courses: EDU 420 or EDU 421 or EDU 422 or EDU 423 or EDU 424 or EDU 426 Credits: 3

Frequency: A Materials and procedures in a process-centered science curriculum. Investigation of new curricula illustrating guided discovery approach to teaching sciences. Prerequisite: Successful completion of 7 hours of science, Admission into Professional Year Co-requisite Courses: EDU 420 or EDU 421 or EDU 422 or EDU 423 or EDU 424 or EDU 426 Credits: 3 EDU404 Teaching Social Studies in the Elementary School Frequency: B Curriculum, materials, and procedures in teaching social studies in the elementary school. Prerequisite: Admission into Professional Year Co-requisite Courses: EDU 420 or EDU 421 or EDU 422 or EDU 423 or EDU 424 or EDU 426 Credits: 3 EDU405 Literacy I Frequency: B Curriculum, materials and procedures in literacy instruction in the elementary school. Prerequisite: Admission into Professional Year Co-requisite Courses: EDU 420 or EDU 421 or EDU 422 or EDU 423 or EDU 424 or EDU 426 Credits: 3 EDU406 Literacy II Frequency: B Curriculum, materials and procedures in literacy instruction in the elementary school. Prerequisite: Admission into Professional Year Co-requisite: EDU 420 or EDU 421 or EDU 422 or EDU 423 or EDU 424 or EDU 426 Credits: 3 EDU412 Integrated Methods for Early Childhood Education Frequency: A Prepares candidates to teach in early childhood classrooms. Information on the national and state learning standards in science, social studies, and the creative arts. Topics include constructivist curriculum planning, preparing the teaching/learning environment, the anti-bias curriculum, project work, authentic assessment, and the roles of play in the early childhood classroom.

Prerequisite Courses: EDU 105, EDU 220 or 225, EDU 250, EDU 276, EDU 314 or 349

Credits: 6

EDU403 Teaching Science in the

School

Elementary

EDU416 Capstone Seminar — Advanced Study in Classroom Organization, Management, and Instruction Frequency: B Focus on extending candidates' knowledge and skills in classroom management and organizational methods, as well as instructional strategies and content. Co-requisite: Professional Year sequence Credits: 3

EDU417 Middle School (Grades 5-9) Methods in Mathematics Frequency: B Principles, materials, and methods for teaching middle school mathematics. The course serves as the primary methods course for candidates pursuing initial certification in Middle Childhood Education—Mathematics Specialist. Credits: 3

EDU419 Secondary School (Adolescence) Methods Frequency: B Principles, materials, and methods for teaching English, foreign languages, mathematics, science, or social studies in the secondary school. Assignment to sections according to subject matter. Note: Must be taken before senior student teaching. Required for Secondary (Adolescence) certification candidates. Credits: 3

EDU420 Student Teaching in the Elementary School - Primary Frequency: A A field assignment to teach in Childhood Education. Assignments provided in grades 1-3; arrangements made by the Office of Field Experiences. Open only to candidates accepted in Childhood Education. This course satisfies the CCC Speaking Intensive Requirement. Prerequisites: Enrollment and satisfactory progress in Professional Year courses; ongoing recommendation of the School of Education Credits: 6

EDU421 Student Teaching in Early Childhood Education Frequency: A A field assignment to teach in Early Childhood Education. Assignments provided in two of the following levels: Pre-K or Kindergarten; arrangements made by the Office of Field Experiences. Open only to candidates accepted in Early Childhood Education. Prerequisites: Enrollment and satisfactory progress in Professional Year courses; ongoing recommendation of the School of Education Credits: 6

EDU422 Student Teaching in the Elementary School Intermediate Frequency: A A field assignment to teach in Childhood Education. Assignments provided in grades 4-6; arrangements made by the Office of Field Experiences. Open only to candidates accepted in Childhood Education. This course satisfies the CCC Speaking Intensive requirement. Prerequisites: Enrollment and satisfactory progress in Professional Year courses; ongoing recommendation of the School of Education Credits: 6

EDU423 Student Teaching in Early Childhood Education Frequency: A A field assignment to teach in Early Childhood Education. Assignments provided in two of the following levels: grades 1-2; arrangements made by the Office of Field Experiences. Open only to candidates accepted in Early Childhood Education. Prerequisites: Enrollment and satisfactory progress in Professional Year courses; ongoing recommendation of the School of Education Credits: 6

EDU424 Student Teaching in the School - Primarv Elementary (Hamburg) Frequency: D A field experience assignment to teach on the primary level in the elementary school. Open only to candidates accepted into the Fredonia-Hamburg Program. Prerequisites: Enrollment and satisfactory progress in Professional Year courses: ongoing recommendation of the School of Education Credits: 3

EDU426 Student Teaching in the Elementary School - Intermediate (Hamburg) Frequency: D A field experience assignment to teach on the intermediate level in the elementary school. Open only to candidates accepted into the Fredonia-Hamburg Program. Prerequisites: Enrollment and satisfactory progress in Professional Year courses; ongoing recommendation of the School of Education Credits: 3

Middle Childhood Education -- Mathematics Specialist Frequency: B A field assignment to teach middle school mathematics. Assignments provided in grades five through nine: arrangements made by the Office of Field Experiences. Open only to candidates accepted into SUNY Fredonia's Middle Childhood Education – Mathematics Specialist Program. Credits: 15 EDU430 Student Teaching in the Secondary School (English, Foreign Languages, Mathematics, Science, Social Studies) Frequency: B A field assignment to teach in secondary education. Assignments provided by subject area in grades seven through 12; arrangements made by Office of Field Experiences. Open only to candidates accepted in Secondary (Adolescence) Education Certification. Prerequisite: EDU 419. Credits: 15 EDU432 Building Home-School Partnerships Frequency: B Develops skills in building partnerships with parents, based on the recognition families are increasingly diverse. Emphasis on models and practices that promote parent involvement. Topics include: parent conferences, improving oral and written communication with parents, home visits, barriers to parent involvement. Credits: 3 EDU480 Internship Frequency: A Participation in a professional, subject related experience. The

EDU429 Student Teaching in

subject related experience. The candidate must submit a proposal stating what the experience is, how it relates to the candidate's course of study, and how it will be monitored and evaluated. The instructor will be responsible for the supervision of the intern. The proposal must be approved one month in advance by the advisor, instructor, and chairperson prior to registration. Credits: 3-15

EDU490 Independent Study Frequency: A Study of a particular problem in education. Periodic meetings with instructor and the writing of a substantial paper. Prerequisites: Senior standing; permission of instructor, advisor, and director: contact department office prior to registration. Credits: 1-3 EDU501 Advanced Study: Child Psychology Frequency: D Methods for observing and measuring child behavior. Principles of research in the study of children. Study of contemporary areas of concern in child development including psychological consequences of marital discord, day care, television, paternal behavior, and family size. Credits: 3

EDU502 Psychology of Adolescence Frequency: D Influence of physical, sexual, and social factors upon total personality during adolescence. Relationship to formation of attitudes toward self and others. Social, emotional, intellectual, and vocational adjustment demanded of youth in Contemporary life. Credits: 3

EDU503 Evaluation in the Schools Frequency: D Practical applications of evaluation theory in the schools: preparation and use of teacher-made tests; selection, administration, and interpretation of standardized tests: the use of evaluation techniques in curriculum decisions and in interpersonal relationships. Credits: 3

EDU505 The Process of Writing: K-12

Frequency: D Examination of the writing process with emphasis on the theoretical and practical issues in the teaching of composition. Details the importance and role of audience, voice, focus, prewriting, conferencing, peer editing, assessment, purpose, and mechanics. Participants write in several modes as part of observation and study of their own composing strategies, including an investigation of the stage or step model of writing. Credits: 3

EDU506 Introduction to Literacy Learning Frequency: B The course explores the foundations of literacy including theoretical models of the literacy process, language acquisition, current issues and research in assessment and instruction, organization and development of literacy programs, and state and federal programs that support literacy development. Discussion and presentation class: addresses candidates in elementary and secondary literacy program. Credits: 3

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EDU507 Group Processes in Education Frequency: D Implications of individual group relationships for teachers and administrators with respect to more effective teaching, higher student motivation, leadership identification and development, school climate and organizational development. Credits: 3

EDU508 Teaching Diverse Learners in Inclusive Settings Frequency: D Introduces teachers to instructional approaches for meeting the educational needs of children from diverse backgrounds within an inclusive classroom. Practical considerations regarding placement options. instructional adaptations and effective use of support services. Credits: 3

EDU509 Teaching of Thinking Frequency: D Study of an overall framework of teaching of, and about thinking and teacher behaviors which create classroom conditions for thinking. Basic approaches to the teaching of thinking skills are explored through various programs, systems and resources currently available. Credits: 3

EDU510 Applications of Technology in Literacy Instruction Frequency: D This course provides an overview of technologies and their applications to literacy instruction. Topics include computer-assisted and computer-managed instruction as well as strategies used to evaluate commercially used software and websites. Addresses candidates in elementary and secondary literacy program. Credits: 3

EDU512 Learning to Write: Pre-K - 6 Frequency: D Candidates engage interactively in various activities, discussions and readings about the development of writing skills and strategies in Pre-K - 6. Current state standards, text types, appropriate teaching strategies for diverse learners, and assessment will be addressed. Credits: 3 EDU 519 Curriculum Theory for the Second Language Classroom - ESL I Frequency: C This course will first discuss basis curriculum theory, providing models of curriculum development and their application to Pre-K - 12 classrooms. The course emphasizes constructivist, student-centered theories. The second part of the course will emphasize basic curriculum theory for the English as a Second Language classroom, providing an analysis of various curriculum models for ESL and bilingual education. Basic methods of ESL are used as students apply theory to classroom practice through research and projects. The Draft NYSED Standards for ESL (and the final version, when it becomes available) and the NYSED ELA Standards Applied to ELL Students will provide the basis for curriculum work in the course. The course will infuse technology and Computer Assisted Language Learning (CALL) in methodology. Required. Credits: 3

EDU520 Curriculum Framework Theory/Development Frequency: B Core graduate course for the Curriculum and Instruction master's degree specialization. Explores the people and changes impacting the history of curriculum in the U.S. Students will develop a usable curriculum/instructional framework following acceptable development practice. Credits: 3

EDU524 Rernediation of Reading Deficiencies Frequency: B In-depth preparation in the remediation of specific skill deficiencies in reading including a review of the procedures involved in identifying those deficiencies. Extensive use of both teacher-made and commercially prepared materials. Credits: 3

EDU525 Curriculum Framework Integration/Innovation Frequency: B Builds upon the information provided in EDU 520. A curriculum issues and development course, students analyze current developments in the field of curriculum and instruction. Students develop an innovative curriculum framework integrating many content frameworks and innovative techniques. Credits: 3

EDU526 Middle School Curriculum Frequency: D Study of the philosophy, organization, and curriculum of the middle school; emphasis on the role of the teacher in changing from junior high school to middle school. Important research and experimental models examined. Credits: 3 EDU527 Microcomputers in Education Frequency: D Examines the impact of the microcomputer in today's schools. Machine functions and software will be introduced, utilized, and reviewed. Programming (BASIC) will be introduced and utilized in class to develop sample programs. This course is currently being revised to reflect broader use of computers in early childhood, elementary, middle, and secondary classrooms. Credits: 3

EDU528 Computer Literacy for Educators Frequency: D This course is designed to introduce education personnel to the techniques and equipment involved in the use and development of computer-assisted instruction. A preliminary introduction to the microcomputer will be a part of the course. The role of both CAI and computer-managed instruction will be explored, including the possibilities of record management, analysis of student performance, and the development of original CAI materials. Emphasis will be placed on the use of "high level, user-friendly" languages such as PILOT and LOGO. This course is currently being revised to address the use of technology in instruction as well as assessment of childhood, elementary, middle, and secondary classrooms. Credits: 3

EDU529 Proactive Approaches to Classroom Management Frequency: D Focus on practical approaches to the prevention of academic and social difficulties of school children. Principles of classroom structure and organization, classroom management and proactive behavior management are emphasized. Credits: 3

EDU530 Models of Reflective and Responsive Teaching Frequency: D Case study-based approach to issues of instructional planning, instructional delivery, analysis of student performance, and teacher reflection and response. Incorporates the "Planning, Instructing, Reflecting, Responding" model adopted by Fredonia's Professional Education Unit. Credits: 3

EDU531 Philosophy of Education Frequency: C Orientation to major philosophical outlooks and problems in contemporary education. Credits: 3

EDU534 Curriculum Development for the Second Language Classroom - ESL II Frequency: C This course provides an historical overview of methods and approaches to teaching English as a Second Language. Approaches and strategies such as: the grammar-translation approach: the Silent Way; the Audio-lingual Method; Total Physical Response; Jazz Chants; the Natural Approach as well as Cooperative Learning; Multiple Intelligences; Whole Language; and psychosociolinguistic approaches are presented. This course provides an opportunity for students to develop curriculum units, applying curriculum theory to various content areas. Students will apply ESL methods and materials to curriculum units and develop instructional strategies that exemplify "best practices" in the field, applying this to K-12 classrooms. Students will employ innovative and technological strategies in their work. English language development (ELD) lesson and unit planning as well as the assessment of these are presented. Required. Credits: 3

EDU535 School and Society Frequency: D Analysis of the school in relation to other socializing influences. Cultural change and its effect upon education. The school in relation to specific problems of changing American communities. Review of studies of teaching as an occupation. Credits: 3

EDU537 Comparative Children's Literature Frequency: D Investigation and study of children's literature, including recent research. Critical analysis of all literary genres for children, preschool through middle school. Emphasis on stimulation of interest and inquiry through current concerns (values education, stereotyping, censorship, visual literacy, etc.). Credits: 3

EDU538 Cultural Literature Frequency: D This course takes a Transcultural/Global approach to the promotion of literacy. Focusing closely on juvenile and children's literature as well as on literature applicable to adolescents, we will expose course participants, who are either workplace practitioners or practicing teachers to world literature. Within an in-depth global exploration of culture and values, students will glean intercultural awareness, stretching literacy beyond our national borders. Using sound instructional practice and theory, we will read novels written by child-protagonists from all over the world. We will generate annotated bibliographies that will enrich our classroom libraries, and promote literacy at the elementary/middle and high school levels. Required. Credits: 3

EDU539 Current Issues and Problems Frequency: C Identification, definition, and analysis of problems and issues

analysis of problems and issues facing education today. Current criticisms of public schools. Proper responsibilities of the schools. Questions of curriculum development and how well schools are teaching basic skills. Credits: 3

EDU540 Content Area English as a Second Language Frequency: D This course explores Shelterd/Scaffolded English as a Second Language Instruction. This translates as workplace know-how and student-learning that is clearly delivered. Students benefiting from this format will have content broken down into manageable learning units and instructors will learn how to communicate these more simply. Utlimately, both the instructor and the learner will communicate effectively and sustainable learning will ensue. Participants in the course will learn how to deliver instruction and how to create instructional materials using this model. The uitimate goal of this course is to explore the different content areas in both schools and the work place to be able to translate instruction into meaningful learning. Cognitive-Academic Language Learning Approaches (CALLA) and other content-area Specially designed Academic Instruction in English (SDAIE) lessons will be covered. The SIOP model will be emphasized. Assessment of learning in the second language content-area classroom is presented. Required. Credits: 3

EDU543 Education for Gifted and Talented Frequency: D The study and development of educational programs for optimum growth of gifted/Talented children. Study and observation of curriculum content, organization of special schools and classes, teaching materials and methods, and the evaluation and administrative adjustments being made for gifted/talented children. Credits: 3 - 6

EDU544 Secondary School (Adolescence) Curriculum Frequency: D Study of current revival of interest in secondary school curriculum: new mandates, emerging practices, varied points of view, and sample programs. Role of classroom teacher and school administrator in curriculum development. Credits: 3

EDU545 History of American Education Frequency: D Historical interpretation of American education. Characteristics of American, colonial education and significant developments in American elementary, secondary, and higher education during the 15th and 20th centuries. Credits: 3

EDU546 Models of Classroom Management Frequency: D Designed to expand the traditional

understanding of classroom management that focuses on discipline and behavioral problems. The course follows a comprehensive classroom management approach focusing on five specific areas of knowledge and skills that teachers need in order to be effective classroom managers. Credits: 3

EDU548 Practicum in International frequency: D Teaching This course provides an opportunity to expand and practice teaching skills in an international setting. Participants will gain information on an educational system different from their own, gain experiences with the traditions and cultural values of the host country, and have the opportunity to participate in classrooms where they can observe, assist, and teach. Readings will be designed to compliment the practical experiences and discussion seminars on topics and themes associated with the international experience will be conducted in the host country with an on-site tutor from the U.S.A. Credits: 3

EDU549 Comparative Education Frequency: C Educational systems of selected foreign countries emphasizing educational philosophies and practices. Cultural, historical, and philosophical foundations underlying each educational

system. Credits: 3

EDU550 Writing in the Secondary Schools Frequency: D Candidates engage interactively in various activities, discussions and readings about the development of writing skills and strategies in secondary schools. Current state standards, text types, appropriate teaching strategies for diverse learners, and assessment will be addressed. Credits: 3

EDU553 Citizenship Education: Moral-Legal Education Frequency: D Curriculum planning and revision, kindergarten through twelfth grade, as it relates to the moral-legal dilemmas facing teachers and students today. Elements include: (1) law-related education; (2) various theoretical positions regarding moral development; (3) moral dilemmas (case studies) drawn from schools; (4) curricular implications and revisions needed. Credits: 3

EDU555 Methods of Bilingual Education

Frequency: C This course reviews, discusses and analyzes teaching methods and techniques used in core subject areas (mathematics, science, and social studies) in bilingual education classrooms in the United States. Assessment strategies as integral parts of teaching methodology are discussed (porlfolios will develop and teach reading and/or writing lessons using strategies, peer groups and self-assessments, etc.). Emphasis is made on methods and techniques using the language in which the bilingual extension is sought. The course will include suggestions for coordination with ESL content area instruction. Students will produce and carry out lessons in the various subject areas. Required course for future teachers pursuing a New York State Bilingual Education Extension and recommended as an asset for any school teachers working with English Language Learners in the area school districts. Credits: 3

EDU556 Teaching Language Arts in Spanish frequency: C A study of teaching approaches and methodology used in the development of literacy skills in Spanish speaking students in the United States. Emphasis on the understanding of the active interaction of reading, writing, listening, and speaking in the process of acquiring and mastering communication skills. This course also will review and analyze current technology and curricular materials used to teach the language arts. Students will develop and teach reading and/or writing lessons using strategies and methodology studies in the course as well as appropriate teaching materials. Required course for inservice teachers as well as for future teachers pursuing a New York Sate Bilingual Education extension. Credits: 3

EDU561 Contemporary Issues in Parent/Teacher Relationships Frequency: D Focus on building successful partnerships with parents from,, diverse family structures. Identifies models of parent involvement currently in schools and shares practical ideas for increasing parent involvement in classrooms. Discusses current educational mandates for parent involvement and implications for school districts. Credits: 3

EDU562 Infant Development and Education Frequency: C Nutritional and psychological influences on prenatal, infant, and toddler growth and development. Topics covered: childbirth, breastfeeding, infant simulation, intellectual development. attachment behavior, and infants in group care. Current research in infant development. Credits: 3

EDU563 Cultural Perspectives Frequency: C Designed around the needs of the M.S. TESOL Program students and those of practitioners in any field. Cultural Perspectives explores cultural awareness and diversity-related issues both in classrooms and the workplace. The course has a social sciences approach, using ethnographic investigations, document-based analysis, and cultural instruments to explore the diverse reality of today's classrooms and schools Using New York State as our springboard, we will explore and investigate the many contributions made by the many ethnicities that make up the state's diversity. Besides exploring the rich cultural diversity of the State of New York, we will explore Vygotsky's socially constructed approach to teaching and learning, Freire's equitable options, and constructivist, student-centered, equitable learning formats. Required. Credits: 3

EDU564 Linguistic Considerations for Educators of ELL Students Frequency: C

This course will present current theories of Second Language Acquisition as well as provide an overview of linguistic phenomena in phonology, morphology, syntax, semantics, and discourse analysis germane to the Second Language classroom. It will provide an examination of English grammar and errors common to second language learners. Language transfer, BICS vs. CALP, hypotheses of major theorist in the fields of SLA and linguistics will be discussed. The course will allow students to apply theoretical models and scientific findings to classroom practice in grades N-12 through research and practice. Required. Credits: 3

EDU565 Language and Learning Psycholinguistics/Language Acauisition

Frequency: C This course provides students with theoretical models and scientific findings relative to cognition and language. First language acquisition and second language acquisition are the focus of the course, with the phenomena common to bilingual speakers emphasized. Students will complete research projects. The course will enable students to apply theory to classroom situations, and provide a compendium of "best practices" to enable classroom teachers to stimulate active learning. (May be taken instead of EDU 566 -Sociolinguistic Considerations) Credits: 3

EDU566 Sociolinguistic Considerations for Educators of ELL Students Frequency: D After reviewing models of first and second language acquisition, this course will discuss sociolinguistic phenomena such as code switching, dialects and idiolects, language transfer, loan words, and appropriate discourse. Common misconceptions regarding "Spanglish" and other linguistic phenomena will be discussed. Phenomena associated with "languages in contact" will be emphasized. Students will apply theoretical models to classroom practice through research and projects. (May be taken instead of EDU 565 - Language and Learning) Credits: 3

EDU568 Foundations of Bilingual Education Frequency: C This course provides the basic theories, issues, and concepts related to teaching bilingual students in N-12 classrooms. Program models will be presented that employ bilingual education and integrated ESL services as well as other models. Classroom strategies impacting student behavior and student. Current issues are discussed and provide students with opportunities to complete library research. The course will be address U.S. bilingual education in terms of (1) historical, (2) theoretical, and (3) practice/methods used in schools. Emphasis is on bilingual education from the 1960s to the present; Federal legislation (Title VII; Title III); the No Child Left Behind Act; Supreme and lower court decisions; state legislation; and other legal aspects. Required. Credits: 3

EDU570 Using Educational Research to Improve Instruction Frequency: A The course assists educational practitioners to become , knowledgeable consumers of research and evaluation reports by helping them to critically analyze and evaluate a variety of research studies. It examines the nature of reasoning in educational research, the use of measurement procedures in quantifying traits, the role of design in testing hypotheses, the role of statistics in analyzing data, and the limitations inherent in generalizing the results of specific research studies. Required in first 9 hours of graduate study. Credits: 3

EDU573 Production and Use of Instructional Media Frequency: D Laboratory course in instructional graphics, film, and photography production and design, and production techniques. Series of individual projects completed, field tested, and evaluated. Credits: 3

EDU580 Teaching Grades 7-12 Frequency: D (A selected area to be designated General, English, Mathematics, Foreign Languages, Science, or Social Studies.) Practical suggestions for teacher working in secondary school. Focus on materials and teaching procedures for specific units of work such as: teaching as problem solving, evaluation strategies, instructional techniques, and recent developments in educational thinking and practice which have affected the curriculum. Special attention to selected topics according to needs and interest of participants. Credits: 3

EDU581 Japanese Culture and Education Frequency: B This course overviews the Japanese educational system and Japanese educational psychology. Historical influences on Japanese educational values are considered. An in-depth examination of the nature of typical Japanese schools at all levels of compulsory education is included. Unique educational approaches, such as juku and kumon, are reviewed. Credits: 3

EDU 582 Classroom Expectancy Effects Frequency: B This course focuses on the impact of expectations on student teacher interactions. Participants will learn how their own behaviors may inadvertently create self-fulfilling prophecies, how student performance and relationships with students may be affected, and how reducing perceptual and behavioral biases can result in a better classroom environment. (Cross-listed as PSY 546) Credits: 3

EDU591 Special Topics Frequency: B Exploration in depth of selected topics in professional education. Principal focus of the course varies from semester to semester. EDU591 courses qualify for the master's program, maximum of 6 hours in EDU591. Credits: 3

EDU603 Issues, Trends, and Research in Elementary (Childhood) Science Frequency: C Issues, trends, and research in teaching science in the elementary school. Primary and secondary sources of research findings dealing with these issues. Emphasis on individual readings and seminar discussions. Credits: 3

EDU605 Issues, Trends, and Research in Elementary (Childhood) Language Frequency: B Structure and organization of language arts programs. Examination of past and current research. Evaluation of current programs. Credits: 3

EDU606 Methods in Diagnosis and Treatment of Reading Difficulties Frequency: B Nature and possible causes of reading disabilities. Principles underlying the diagnosis of reading difficulties. Development of competence in analyzing reading problems through use of diagnostic techniques. Credits: 3 EDU607 Practicum in Reading Frequency: B Supervised laboratory experiences in diagnosis and treatment of reading difficulties. Credits: 3

EDU608 Clinical Diagnosis of Disabilities Reading Frequency: B Administration, interpretation, and evaluation of individual diagnostic instruments used in diagnosis of reading disabilities. Preparation of case studies. Diagnosis of more severe types of reading disabilities. Prerequisite Course: EDU607. Credits: 3 EDU611 Advanced Seminar in Elementary Education Frequency: D Individual problems of the teachers enrolled. Individual research on problems of special interest under guidance of one or more staff members. Credits: 3

EDU614 Principles of Administration Frequency: D Basic functions of educational administration. Role of administrator as service agent for instruction and his/her function as coordinator of school programs. Credits: 3

EDU615 School Administrator/Supervisor Frequency: D Nature, responsibilities, and developing status of elementary and secondary principals. Role of principal and supervisor as educational leader: relationships with parents and community groups, guidance functions, management of administrative records, administration of equipment and supplies. Credits: 3

EDU616 Supervision I: Theory/Practice Frequency: D Nature and function of supervision in modern school. Role of supervisor in cooperative group planning and development of programs for improving instruction. Supervisor's parl in development of common aims and guiding principles of instruction. Ways of studying and improving curriculum practices. Development of public understanding of and participation in school policies. Credits: 3

EDU617 Supervision II: Improve Instruction Frequency: D Supervisor's role in improving quality of instruction. Relation of purpose of supervision to goals of the school. Appraisal of school programs and quality of instruction. Techniques for improvement of instruction. Instructional supplies and equipment; school facilities. Credits: 3 EDU618 Internship: School Administrator/Supervisor, Elementary (Childbood) Frequency: D Field experience in activities related to functions of elementary school administrator/supelvisor. Credit: 3-6

EDU619 Internship: School Administrator/Supervisor, Secondary (Adolescence) Frequency: D Field experience in activities related to functions of secondary school administrator/supervisor. Credit: 3-6

EDU620 Public School Finance Frequency: D Factors associated with financial support of public education in U.S. Study and analysis of local, state, and federal responsibilities for support of education. Support programs and efforts at all levels. Development of local budget as instrument for achieving educational objectives of the school. Credits: 3

EDU622 Issues, Trends, and Research in Reading Frequency: D Critical analysis of past and current issues, trends, and research in reading. Evaluation of current reading programs. Seminar discussions. Credits: 3

EDU624 Contemporary Problems in School Administration Frequency: D Intensive study of selected current or emerging problems in administration. Significant problems chosen for study will vary. Credits: 3

EDU625 Early Childhood Curriculum Frequency: D Special attention to educational experiences for children; parent involvement; health, psychological, and social services; planning and adaptation of facilities; utilization of materials and equipment; and development of internal program evaluation. Credits: 3

EDU626 Public School Law Frequency: D Study of law and principles of law as they apply to organization and administration of education in the nation and state. Special attention to teacher and the law; impact of court decisions on the school. Credits: 3

EDU629 Issues, Trends, and Research in Early Childhood Education Frequency: D Basic issues in early childhood education explored, current trends delineated, and past and current research studies. Credits: 3 EDU630 Educational Administration Frequency: D Advanced course devoted to analysis of one of the following topics; The Politics of Education, Studies in Administrative Leadership, School-Community Relations, Collective Negotiations, School Personnel Administration, Administering Innovative Programs, or Management Objectives. Credits: 3

EDU635 Curriculum Development in Social Studies Education Frequency: D Investigation of basic principles in curriculum development in elementary social studies. Examination of current social studies curricula and materials. Individual students or small groups work on social studies curriculum projects of special interest. Credits: 3

EDU636 Issues, Trends, and Research in Elementary School Social Studies Frequency: D Structure and organization of social studies programs. Examination of past and current issues, trends, and research in social studies education. Evaluation of current social studies programs. Credits: 3

EDU640 Issues, Trends, and Research in Elementary (Childhood) School Mathematics Frequency: D Systematic examination of the issues and trends in a modern program of elementary school mathematics. Basic review of what constitutes a modern program in elementary school mathematics, based on an examination of experimental programs, trends, and current materials. Attention focused on the nature of current programs as to content, instructional materials, procedures, and evaluation. Credits: 3

EDU642 Activity-Oriented Elementary Mathematics Frequency: D Encourages and prepares teachers to teach elementary mathematics through laboratory and learner-oriented activities. Class members prepare laboratory materials, kits, and activity-type lessons for their own classrooms. Credits: 3

EDU643 Diagnosis Treatment of Learning Difficulties in Elem. (Childhood) Mathematics Frequency: D Examination of symptoms and causes of learning difficulties in mathematics, including a systematic approach to the diagnosis of these difficulties through the use of both individual and group techniques. Basic guidelines for prescribing and evaluating remedial instruction. Credits: 3 EDU670 Independent Study Frequency: A Provides advanced graduate students the opportunity to work individually on problems of special concern not otherwise available through regular course offerings under the direction of a qualified department member. Credits: 1-12

EDU671 Practicum/Seminar Frequency: C This course provides classroom instruction and field practice for educators of LEP/ELL students. It provides a supervised student teaching experience for graduate students who are already certified in an approved area of education. Students are placed in an ESUBE classroom or resource room at a grade level appropriate to their circumstances; students already holding an early childhood or childhood certificate will be placed in a middle school or secondary school (grades 5-12); students already holding a middle school or adolescent certificate will be placed in an elementary school setting (grades K-6). The field placement shall be for four days per week, six hours per day, for a minimum of six weeks. maximum of 10 weeks depending on whether taken in the fallkpring or summer session. The seminar focuses on topics germane to teaching students in grades K-12 in an ESUBE setting. Students will attend a three hour seminar once per week throughout the semester or summer session. Classroom theory is applied to field practice. Required course. Credits: 3

EDU690 - 691 Research Frequency: A Research including the preparation of a project, essay, or thesis. Credits: 3-6

English (ENGL)

ENGL100 English Composition Frequency: A An experiential, student-based writing-workshop course in which students understand and practice various stages of the writing process; compose essays using narration, description, persuasion, exposition, and explanation; and use writing and discussion as a means of situating themselves in a world of ideas. Emphasis as well on reading critically. Credits: 3 COURSE

Education

to

Education

ENGL101 Introduction

majors are introduced to teaching in this course, which combines 25

and practices of English-Adolescence Education. Teaching

socioeconomics, and the structure

and history of language are among

Students participate in 25 hours of

detailed report answering defined

questions about advanced issues

to articles on the foundations of

development of education in the

Language Arts. Students meet

with the instructor to discuss their

Prerequisite Courses: English 101

education in the United States.

Particular emphasis on the

observations and written

ENGL200 Introduction to

An introduction to the

cultures, their historical

aspects of the American

experience, the course will

U.S. history. The course

the Americas and the global

is selected by the instructor.

ENGL204 Survey of English

The study of major texts from

origins to the present in British

literature and other disciplines.

the relationships between

Literature. Will include divergent

approaches to texts, the historical

development of the literatures, and

Cross-listed as AMST202.

Credits: 3

Literature

Credits: 3

Frequency: D

Studies

interdisciplinary study of American

development and contemporary

status. Focusing on literaly and

cultural representations of specific

examine the constructed nature of

American self-perceptions and of

contextualizes U.S. cultures within

arena. Particular course emphasis

responses.

Credits: 1

American

Frequency: B

in pedagogy, and write responses

classroom observation in the

secondary schools, write a

hours of classroom observation

with reading, writing, and discussion about the principles

strategies, learning styles,

classroom management,

ENGL103 Readings and

Observation in English

the topics considered.

Credits: 1

Education

Frequency: B

English-Adolescence

English-Adolescence

Frequency: B

DESCRIPTIONS

ENGL206 Survey of American Literature Frequency: D The study of major texts from origins to the present in American Literature. Will include divergent approaches to texts, the historical development of the literatures, and the relationships between literature and other disciplines. Credits: 3

ENGL207 Drama and Film Frequency: A Study of plays and some films from different times and places, their possible interrelations and ways they reflect their various cultures. Credits: 3

ENGL208 American Popular and Mass Cultures Frequency: C An introduction to the methodologies of studying American cultures, with a special focus on popular and mass cultures. Particular course emphasis will be determined by the individual instructor, but topics will stress the multiplicity of American cultures. While literary works will make up the majority of the class texts, the course will utilize an interdisciplinary approach integrating materials from fields such as history, anthropology, women's studies, ethnic studies, geography, sociology, music, and art. Cross-listed as AMST 210. Credits: 3

ENGL209 Novels and Tales Frequency: A Study of long and short fiction of several kinds, including myth, fable, and realistic narrative, from a variety of places and times, and their relation to their different cultures. Credits: 3

ENGL211 World Poetry Frequency: A Study of lyric poetry from different times and places showing similarities and differences in themes and poetic methods. Credits: 3

ENGL214 American Fiction Frequency: D Readings from among various fiction genres, intended to reflect the growth of and influences in American fiction from its beginnings to the present; specific focus is chosen by the instructor. Credits: 3

ENGL205 Epic and Romance Frequency: A Study of works of epic and romance from a variety of times and places, their function as literary works, their similarities, and their different concepts of the human. Credits: 3 ENGL215 English Detective Fiction Frequency: D

A survey of English mystery writers from Sir Arthur Conan Doyle to P.D. James, exploring their techniques with the genre and the methods of their detectives. A requirement is that students create their own mystery fiction. Credits: 3 ENGL216 Science Fiction Frequency: D Historical and generic survey of science fiction through representative works and major authors; examination of its relationships with other types of literature. Credits: 3

ENGL240 African American Literature and Culture Frequency: D An examination of major works by African American novelists, poets, dramatists, filmmakers, musicians, and essayists in terms of the intellectual and political concerns of their periods and locations. Cross-listed as INDS 240. Credits: 3

ENGL241 Introduction to Latino Literature Frequency: D Study of works by and about Latinos, including poetry, novels, film, drama, music, and essays. Focus on culture of people of Hispanic descent living in the United States, including Chicanos, Puerto Ricans, Dominican Americans, and Cuban Americans, with some consideration of the ongoing relations between U.S. Latinos and Latin America. Cross-listed as INDS 241. Credits: 3

ENGL242 American Indian Literature Frequency: B Study of a variety of works, including traditional tales, novels, poems and memoirs, produced by American Indians from historical beginnings to the present. Cross-listed as INDS242. Credits: 3

ENGL 250 Literacy and Technology Frequency: B Designed primarily for English-Adolescence Education majors, this course explores the theoretical and practical implications of technology for the nature of literacy. The course presents approaches to helping secondary students improve their literacy through the use of technology. Credits: 3

ENGL260 Introduction to Creative Writing Frequency: A First in the sequence of creative writing courses, a prerequisite for all higher level creative writing. Conducted in an informal workshop format, the course provides practical experience in the writing and evaluation of poetry and short fiction. Basic forms, prosodies, techniques, genres, and the problems they pose are considered through study of historical and contemporary examples, and through writing assignments. Credits: 3

ENGL270 Introduction to Print and Broadcast Journalism Frequency: B The basic course in journalism focuses on how the media function in our society and provides practice in writing for media. Major ethical and legal issues are introduced and discussed. Cross-listed as JOUR270. Credits: 3 ENGL280 Introduction to Film Frequency: C Study of ways to approach and understand film as a medium of art and communication. Emphasis on building a working vocabulary of basic film terms through screening, discussion, and analysis of feature and shorter films Credits: 3 ENGL291 The Bible as Literature Frequency: D Examination of sections of Old and New Testaments as works of literature, history and religious thought. Emphasis on major themes, motifs, and critical techniques. Credits: 3 ENGL296 American Identities Frequency: B An exploration of the historical construction of American gender, ethnicity/race, and class; their present status; and their literary and cultural representations. Focusing on intersections between these categories of identity, the course will utilize an interdisciplinary approach, integrating materials from fields such as literary studies, history, women's studies, ethnic studies, geography, sociology, music, and art. Required course for American Studies minor. Credits: 3 ENGL299 Special Topics Frequency: D Variable-content course; topic announced in Course Offerings Bulletin each semester. Credits: 3 ENGL304 Latina Literature and Cultural Studies

Cultural Studies Frequency: D Study of contemporary Latina representations through the examination of literature, film, mass media, music, ethnography. Focus of course is on US. Latina and transnational Latina identities. Credits: 3

ENGL310 Medieval Literature Frequency: C Study of selected texts representative of the literature flourishing in Western Europe between 600 and 1500. Credits: 3 Study of the literature of the Renaissance in England and elsewhere in Western Europe, culminating in the reign of Elizabeth I. Credits: 3 ENGL314 Major Women Novelists Frequency: C An in-depth study of novels written by women. The course explores questions regarding gender, language, perception, and experience through the genre of the novel. Credits: 3 ENGL316 The Early Seventeenth Century Frequency: D Study of the metaphysical and neo-classic traditions in the poetry of Donne and Jonson, Herrick, Crashaw, and Marvell; study of a variety of emerging prose styles in works by Raleigh, Bacon, Donne, Browne, Burton, and Bunyan. Credits: 3 ENGL318 Studies in Poetry Frequency: C Advanced level course in analysis of poetry: introduction to various critical approaches; background study of poetic techniques; independent work on one poet. Credits: 3 ENGL320 The Restoration and 18th Century Frequency: C Critical study of major literary forms within historical context of period. Swift, Pope, and Johnson among the authors considered. Credits: 3 ENGL322 The Romantic Age Frequency: C Romantic movement in England, 1790 to 1835, as exemplified in writings of Blake, Wordsworth, Coleridge, Lamb, Byron, the Shelleys, Keats, Wollstonecraft, DeQuincey, Hazlitt, and others. Credits: 3 ENGL324 Myth and Symbol in Literature Frequency: D Examination of symbolic forms of literary expression and their interrelationships in selected works. Credits: 3 ENGL326 Victoria Modern Literature Victorian/Early Frequency: C Introduction to later 19th century English poetry and prose; emphasis on relationship between social-intellectual history and the literature. Topics include problems of rapid industrialization, impact of science and technology, pressures for increased democratization, impact of laissez-faire capitalism. and relationship of the literature to 19th century music, painting, and architecture. Credits: 3

ENGL312 The Age of Elizabeth

Frequency: C

Frequency: C Study of major British fiction. poetry, and drama, 1900 to the present. Topics include the Irish national movement. romantic/realistic attitudes toward war, the roots of modernism, the dissolution of Empire. Authors range from Yeats, Synge, Joyce, and Lawrence to Amis and Fowles. Approach is varied but tends to emphasize social-historical backgrounds. Credits: 3 ENGL330 The Contemporary Novel Frequency: C Study of the novel in Britain and America, 1948 to the present. Emphasis on variety of forms, styles, and techniques in the genre

ENGL328 Modern British

Literature

styles, and techniques in the genr and on contrasts between British/American novels of the period reflective of long-established, quite separate traditions.

ENGL331 American Literary Roots

Credits: 3

Frequency: C Study of American literary and cultural roots in the 17th and 18th centuries; special attention to the emergence of myths and realities concerning the American hero and the American dream, including specific issues such as the rise of slavery, the role of women, the treatment of Indians, the power of the Revolution. Credits: 3

ENGL332 American Romanticism in Literature Frequency: C Study of Romanticism in terms of influence, development, and characteristics within the context of American culture, including textual examples ranging from indigenous native sources to those of Europe and the East. Credits: 3

ENGL333 Environmental Literature Frequency: D Survey of American nature writing, chiefly over the past half century. Focuses on the art of seeing natural places. Includes field trips, direct study of nature. Credits: 3

ENOL334 Realism/Naturalism in American Literature Frequency: C Study of Realism and Naturalism in terms of influence, development, and characteristics within the context of American culture, including influences from Europe and from the emerging voices of American women and African American slaves. Credits: 3 ENGL335 Modern American Poetry Frequency: C Study of American poetry of the first half of the 20th century. Focuses on tradition and innovation, distinctive voices, the cultural and historical context. Credits: 3

ENGL336 Modernism in American Literature Frequency: C Study of modernism in terms of influence, development, and characteristics within the context of American culture; might include such figures as Faulkner and Hemingway, and such movements as the Harlem Renaissance. Credits: 3

ENGL338 Contemporary American Literature Frequency: C Study of contemporary directions, including those suggested by the works of Hispanic American, American Indian, African American, and other ethnic groups that contribute to the meaning of the American identity today. Credits: 3

ENGL339 Contemporary American Poetry Frequency: C Study of American poetry being written now and during the past 20 years in relationship to the American and lyric traditions. Focuses on the place of poets in our society, the cultural and historical context of American poetics, and the development of a uniquely American voice in contemporary poetry. Credits: 3

ENGL340 Black Women Writers Frequency: C Study of the literature written by and often about black women, including poetry, short and long fiction, drama, biography, and autobiography from the 18th century to the present. Credits: 3

ENGL341 Harlem Renaissance Frequency: C Study of texts representative of the literature flourishing within the African American community between approximately 1919 and 1930. Focuses on the political, social and literary origins of this movement, as well as the different literary and artistic genres created during this era. Credits: 3

ENGL342 African American Autobiography Frequency: C Study of major texts that contribute to the field of African American autobiography. Focuses on the literary and cultural trends exhibited in these texts, as well as on the individual significance of each text. Credits: 3 ENGL344 Contemporary Multicultural American Literature Frequency: C Study of the novels, poems, plays, and essays of Contemporary African American, Asian American, American Indian, and Hispanic American writers. Key questions explored include whether or not these writers exhibit shared concerns, how they represent identity and difference pertaining to race and ethnicity, and how race and ethnicity intersect with gender, class, sexuality, and nationality. Credits: 3

ENGL345 Critical Reading Frequency: A Focus on helping students develop an awareness of their own acts of interpretation in reading and an understanding of the strengths of different approaches to interpretation and criticism. Credits: 3

ENGL346 History of Literary Criticism Frequency: D Survey of representative texts in literary criticism from Plato to the mid-19th century. Credits: 3

ENGL348 Modern Literary Criticism Frequency: D Study of major documents, theoretical concerns, and dominant trends in literary criticism from the mid-I 9th century to the present. Credits: 3

ENGL349 Feminist Theory Frequency: B In-depth critical exploration of selected theories to explain the sources of women's roles in society. A multidisciplinary approach will be employed to account for the social, economic, political, and cultural status of women in contemporary societies. Cross-listed as WOST 301. Credits: 3

ENGL350 Literary Landmarks Frequency: D In-depth critical examination of selected "landmarks" of a literary tradition of the instructor's choice: British, American, or World. Focus on issues of interpretation, intertextuality, literary movements and periods, canon formation, and pedagogy. Credits: 3

ENGL 351 Language and Society Frequency: D Overview of the ways language use both reflects and shapes our social identities. Areas for consideration include gender, race, age, class, status, power, and nationality. Credits: 3 COURSE

ENGL 355 Literature for

by, and about adolescents.

Study of and written responses to

a broad variety of texts written for,

experience as it is depicted in this

system. Students will discuss and

literature to children from diverse cultural and linguistic

ENGL 356 Teaching Writing in

Frequency: B Study of and practice in, strategies

for teaching the process of writing: pre-writing, drafting, revision,

editing, and publication. Includes

sociological, and psychological theories of language, linguistics,

explore the nature of the reading

how people make meaning from print and other media, and how

become more capable readers.

teachers might help students

ENGL 358 Composition for

it applies to elementary and

learning throughout the

Teachers

Analysis of the writing process as

junior-high students. Approaches

to teaching writing as a means of

ENGL360 Intermediate Creative

techniques, genres, and theories

of poetry and fiction. Readings in

contemporary poetry and fiction. Emphasis on further development

of students' skills in writing and

self-criticism through intensive

workshop experience. Students

will write both poetry and fiction.

ENGL366 Opinion in

Introduction to techniques

appropriate to presentation of

print, broadcast and electronic

critical reviews of books, films,

theatre, art, etc. This course is

Prerequisite Courses: JOUR270 or COMM102 or MEDA101

cross-listed as JOUR366.

opinion and critical commentary in

media: editorials, political columns,

Prerequisite Courses: ENGL 260

elementary-school curriculum.

Continued study of forms,

process, how people learn to read,

and learning theory used to

methods of assessing writing.

Literacy/Language/Learning

Study of philosophical,

the Secondary School

Examination of the adolescent

literature, with an emphasis on

multicultural education, cultural

diversity, and the educational

prepare to teach adolescent

Adolescents

Frequency: B

backgrounds.

Credits: 3

Credits: 3

ENGL357

Frequency: B

Credits: 3

Elementary

Credits: 3

Frequency: C

Credits: 3

Journalism

Credits: 3

Frequency: B

Writing

Frequency. B

Theory

DESCRIPTIONS

ENGL375 Writing for the Professions Frequency: D Focus on the development of students' ability to communicate in the business and professional world through the letter, memorandum, and in-house report. Emphasis on the importance of written communication as a tool for problem-solving in administrative and management settings. Credits: 3 ENGL378 Advanced Writing I:

The Essay Frequency: D Workshop oriented course in which students write, examine, and discuss the essay as a distinct mode. Through this course, students can expect to extend the range of their writing, their understanding of rhetorical traditions, and their freedom and flexibility as writers of essays. Prerequisite Courses: ENGL 100 Credits: 3

ENGL380 Film: Silence to Sound

Frequency: D An historical survey of feature narrative and dramatic films from the beginnings through the late 1930s, through screenings, lectures, discussions, and analysis of selected works. Filmmakers studied include Porter, Griffith, Von Stroheim, Eisenstein, Pudovkin, Lubitsch, Hitchcock, Lang, and Renoir. Credits: 4

ENGL381 Narrative Film After 1940

Frequency: D An historical survey of feature narrative and dramatic films from 1940 through the present, through screenings, lectures, discussions, and analysis of selected works. Filmmakers studied include Welles, Huston, Capra, Hitchcock, Kurosawa, Godard, Truffaut, Bunuel, Fellini, Antonioni, and Altman.

Credits: 4

ENGL386 Women and Film Frequency: D A study of women filmmakers and their uses of documentary, experimental, and narrative forms. Particular focus on the role of the female spectator, the redefinition of traditional gender roles through film, and the (re)production of knowledge about women and femininity through the cinematic apparatus. Cross-listed as WOST 383. Credits: 4

ENGL389 Greek and Roman Literature Frequency: D Introduction to major literary genres of classical Greece and Rome; emphasis on characteristic

genres of classical Greece and Rome; emphasis on characteris forms and themes. Readings in Modern English translations. Credits: 3 ENGL390 Jewish Literature Frequency: D A study of major Jewish writers from the Bible to the present. Emphasis will be on the literature and on the varieties of Jewish culture that it represents. Credits: 3

ENGL391 Romanticism in World Literature Frequency: D An exploration of basic themes

commonly associated with the concept of Romanticism as identified in literature from eastern and western cultures. Credits: 3

ENGL392 Asian Literature Frequency: D A study of selected works from the Chinese, Japanese, Indian, and Middle Eastern cultures, emphasizing those that make up their canon and which are recognized as having had a significant influence on Western culture. Credits: 3

ENGL393 Asian-U.S. Confrontations Frequency: D Comparative study of texts and cultural events involved in moments of confrontation; variable emphasis from offering to offering; includes Islamic, Indian, Chinese, and Japanese works. Credits: 3

ENGL394 Japanese Literature Frequency: D Study of selected works from the Japanese culture, emphasizing those that make up their canon and which are recognized as having had a significant international influence, especially on the U.S.; this course also examines cultural assumptions in the works and in ourselves, and looks closely at the problem of language in translation and cultural contexts. Credits: 3

ENGL395 Third World Literature Frequency: D Examination of works by women and men from countries that, by various definitions, are considered to be part of the Third World. Focus on cultural relativism and competing ideologies. Credits: 3

ENGL396 Russian Literature Frequency: D Intensive reading of important works of Russian fiction to understand each writer's vision of the potentialities, complexities, and essential conditions of human nature, within the intellectual and cultural context perceived or created by the writer. Significant attention to political and cultural history of Russia. Credits: 3 ENGL398 Canadian Literature Frequency: D Study of poetry and fiction, both English and French, from Canada. The literature is considered in its historical context and in conjunction with the other arts. Credits: 3

ENGL399 Special Topics Frequency: D Variable-content course; topic announced in Course Offerings Bulletin each semester that the course is offered. Credits: 3-4

ENGL400 Senior Seminar Frequency: A Extends the development of students' close reading of texts; encourages an extensive, progressive understanding of research; integrates experiences of the major core requirements; and encourages development of multidisciplinary approaches to topics and issues. The course satisfies writing-intensive and oral-intensive requirements for GCP/CCC and is required for all English majors. (English-Adolescence Education majors take ENGL450 in the place of ENGL400.)

ENGL401 Portfolio Completion Frequency: A Required for all English and English-Adolescence Education majors. Gives recognition for thoughtful completion of all elements of the reflective portfolio. Credits: 0

Credits: 3

ENGL408 Arthurian Literature Frequency: D Study of the many works about King Arthur and his knights of the Round Table, extending from the 8th century to the present. Credits: 3

ENGL410 Chaucer Frequency: C Study of The Canterbury Tales and Troilus and Criseyde. Introduction to Middle English language and period and to significant Chaucerian scholarship. Credits: 3

ENGL412 Early Shakespeare Frequency: C Study of Shakespeare's works to 1600; emphasis on his growth as a dramatist. Credits: 3

ENGL414 Later Shakespeare Frequency: C Study of Shakespeare's works from 1600 to end of his career. Credits: 3 ENGL416 Elizabethan Drama Frequency: D The development of the English drama in the late 16th and early 17th centuries. The growth of drama from the medieval mystery, miracle, and morality plays through the works of Shakespeare's contemporaries. The plays in their cultural, historical, and artistic climates. Credits: 3

ENGL418 Restoration/18th Century Drama Frequency: D Study of the drama and theatre of Jonson, Dryden, Wycherley, Congreve, and Sheridan, with extension of their influence through the works of Wilde; focus on the major changes which the tenets of classicism brought to the English stage after Shakespeare. Credits: 3

ENGL420 Milton Frequency: C Milton's thought and art as expressed in Paradise Lost, Paradise Regained, Samson Agonistes, and selections from the minor poems and the prose. Credits: 3

ENGL422 English Novel I Frequency: D Study of representative novels of 18th and early 19th centuries. Particular attention to human and literary concerns which contribute to development of the novel. Writers include Richardson, Fielding, Sterne, and Austen. Credits: 3

ENGL424 English Novel II Frequency: D Study of such 19th and 20th century novelists as Dickens, Eliot, Hardy, Conrad, Lawrence, and Woolf. Special attention to form of the novel used to portray each writer's vision. Credits: 3

ENGL425 Yeats and Company Frequency: C An intensive reading of certain major works of William Butler Yeats and of his contemporaries or successors. Considerable attention to the mythologies, history, and politics of Ireland. Credits: 3

ENGL426 Major American Writers Frequency: C Close study of one or more writers and themes significant in American culture. Credits: 3

ENGL428 Major English Writers Frequency: C Study of the works of one English author or a few authors whose works are related thematically, historically, generically, or on another literary basis. Credits: 3 ENGL446 Contemporary Literary Theory Frequency: C A study of the most recent American and international literary critical thinking, emphasizing both theory and practice. Credits: 3

ENGL450 Seminar for Teachers of English Frequency: B Workshop designed to immerse students in the processes of preparing high school students to read drama, fiction, and poetry. Emphasis on pre-reading activities, construction of discussion questions and classroom activities, development of a three week unit for teaching literature, and participation in a micro-teaching activity. Permission of instructor. Credits: 3

ENGL455 Writing Tutors Frequency: B An eight-week training program preparing students to tutor writing in the college Learning Center for a minimum of four hours per week. Permission of instructors. Credits: 3

ENGL456 ESL Tutoring Frequency: B Focus on tutoring students whose first language is not English. Credits: 1

ENGL460 Advanced Creative Writing: Poetry Frequency: C Intensive critical discussion of student work. Readings in contemporary poetry. The orientation of the course is professional, and the students are expected to submit their work to periodicals for publication. Oral presentation of student work. Prerequisite courses or permission of instructor. Prerequisite Courses: ENGL260 and ENGL360 Credits: 3

ENGL461 Advanced Creative Writing: Fiction Frequency: C Intensive critical discussion of student fiction. Readings in contemporary fiction. The orientation of the course is professional, and students are expected to submit their work to periodicals for publication. Prerequisite courses or permission of instructor. Prerequisite Courses: ENGL260 and ENGL360 credits: 3

ENGL465 English Internships Frequency: A English internships. Interns work four hours per week for 1 credit hour. Permission of chair. Credits: 1-3 ENGL468 Public Relations Internships Frequency: A Open to students on a competitive basis. Students work in professional settings on or off campus, up to 12 hours per week. Credits: 1-3

ENGL490 Independent Study Frequency: A Study of a particular author, topic, or work. Periodic meetings with instructor and writing a substantial paper. Credits: 1-3

ENGL499 Special Topics Frequency: D A variable-content course on topic announced in Course Offerings Bulletin each semester. Credits: 3

ENGL510 Major Writers Frequency: B Study in-depth of one writer or up to three writers related on the basis of a unifying principle. Credits: 3

ENGL512 Historical Perspectives in Literature Frequency: B Study of the development of important movements or concepts in literature. Credits: 3

ENGL514 Comparative Approaches to Literature Frequency: B Study of literary works from different time periods, nations, or cultures Credits: 3

ENGL516 Criticism and Theory I Frequency: C Part one of the historical study of critical and theoretical approaches to literature and to the teaching of literature, with concentration on authors pre-1900. Credits: 3

ENGL518 Criticism and Theory II Frequency: C Part two of the historical study of critical and theoretical approaches to literature and to the teaching of literature, with concentration on authors post-1900. Credits: 3

ENGL520: Graduate Seminar in Literature and Culture Frequency: C A variable-content course, interdisciplinary in nature, featuring a Contemporary topic central to the discipline. Credits: 3

ENGL554 Teaching Writing in the Secondary School Frequency: C Study of and practice in approaches to teaching writing, with emphasis on whole-language instruction. Survey of recent research in written composition and its applications in the secondary classroom. Credits: 3

ENGL580 Studies in Literature Frequency: A Study in literature or language in conjunction with a cross-listed undergraduate 400 level course. Graduate students are required to do graduate-level work beyond the course requirements for undergraduate students. Credits: 3

ENGL605 Independent Study Frequency: A Independent study of a defined topic under the supervision of an instructor. No more than 6 hours of this course may be applied to degree requirements. Credits: 3

ENGL665 Studies in English Education Frequency: C Variable-topics course in the teaching of English, with emphasis on the relationships among two or more of the following: linguistics, literature, criticism, composition, media, and learning theories. Credits: 3

ENGL690-691 Thesis Research I and II Frequency: A Directed research culminating in the preparation of a thesis. ENGL 690 and ENGL 691 must be taken sequentially in separate semesters Credits: 3

Environmental Science (ESCI)

ESCI115 Introduction to Environmental Science Frequency: B This course outlines the concepts and approaches used in the study of environmental science. The interdisciplinary nature of the science is emphasized in the discussion of topics such as energy production, consumption and flow, natural resources, pollution, and nutrient and chemical cycling. Quantitative skills are emphasized. Credits: 3

ESCI310 Methods in Environmental Analysis Frequency: C Methods common to environmental sciences emphasizing laboratory and field measurement techniques. In the laboratory, wet chemical and electrochemical techniques: methods of trace pollutant analysis; bioassays: BOD measurements, etc., will be studied. Field studies will include classical techniques such as dissolved oxygen and Secchi disk measurements, as well as more recent assessment methods such as terrain conductivity and macroinvertebrate studies. Combination lecture/laboratory. Credits: 3

ESCI410 Environmental

Introduction to concepts involved

in risk assessment and how they

or ecological risk assessment.

Modern methods and models

describing environmental risk

assessment strategies will be

emphasized. Topics will include

fate and transport processes of

pollutants in the environment, data

evaluation, air and water quality,

human health risk assessment,

ecological risk assessment, and

Case studies will be drawn from

the contemporary literature and

students will formulate a risk

assessment as part of a team.

hazardous waste remediation.

are applied to formulating a human

Assessment

Frequency: C

DESCRIPTIONS

FREN116 Elementary French II Frequency: A Continuation of FREN 115. Further introduction to fundamental speech patterns. For students with one semester of college-level

French or equivalent. Stress on listening comprehension, oral ability, reading, and writing skills. Prerequisite: FREN 115 Credits: 3

FREN215 Intermediate French I Frequency: B Continues the work required for increasing performance levels in the four skills of reading, writing, speaking, and understanding of the language. Regular language laboratory work for further reinforcement and drill. Prerequisite Courses: FREN 116 Credits: 3

FREN216 Intermediate French II Frequency: B Brings student to a level of competence in the language allowing them entry into upper level courses. Regular integrated language laboratory drills and tests. Adult reading materials, adult speaking levels. Prerequisite Courses: FREN 215 Credits: 3

FREN305 French for Business I Frequency: D Designed to reinforce student's language skills so as to permit him/her to use French meaningfully in the business world. Introduction to basic geography of France and French social institutions as they affect economic life of the nation. Study of commercial vocabulary, introduction to business correspondence, and business practices. . Credits: 3

FREN306 French for Business II Frequency: D Continues the work of FREN 305 in reinforcing the students language skills in the context of the business world, as well as exploring the impact of various areas of French culture in the economic life of the country. Credits: 3

FREN310 The Literature/Culture of Quebec

Frequency: D An exploration of Quebec's cultural uniqueness through the literature that has played a central role in defining it. The historical and political events that have influenced the development of Quebec literature and culture will also be examined Review of separatist movement included. Credits: 3

ESCI440 Environmental Sciences Seminar Frequency: B Each student will present a seminar on a current topic of environmental sciences research during the spring semester of their senior year. Emphasis on detailed knowledge of the subject matter, techniques for searching the professional literature, and procedures for the preparation and presentation of a professional

seminar. Credits: 1

Credits: 3

ESCI490 Environmental Sciences Practicum Frequency: A Independent research, independent study, or internship under the direction of a participating faculty advisor. Credits: 3

Film (FILM)

FILM470 Senior Film Seminar Frequency: B The capstone experience for the Film Studies minor. Content varies according to instructor and student interest, but could involve work on a cooperative project such as a spring semester film festival, or take a more traditional form, with advanced readings in film or a research project. Prerequisites: 18 credits of film courses or consent of instructor. Credits: 3

French (FREN)

FREN115 Elementary French I Frequency: A For students with no previous preparation. Study of fundamental speech patterns. Initial stress on listening comprehension and oral ability. Progressively greater emphasis on reading and writing . skills Credits: 3

FREN315 French Masterpieces Frequency: B A study of the three literary genres: fiction, theatre, and poetry. Selections are from a wide variety of authors and time periods, from the Renaissance to the 20th century. Primary focus is stylistic but considerable time will also be devoted to literary movements and to French history and culture. Different types of assessment will include oral presentations by the individual student and groups, papers, quizzes, discussions, and exams which will all be in French. Prerequisite Courses: FREN 216 Credits: 3

FREN316 French Plays and Prose

Frequency: B This course introduces the student to a number of excellent examples of French drama and other genres in poetry or prose for the purpose of becoming acquainted with the general characteristics of French literature and the analysis thereof. Prerequisite Courses: FREN 216 Credits: 3

FREN317 French Conversation Frequency: B Oral-aural drills, conversational exercises; practice in understanding and speaking French. Prerequisite Courses: FREN 216 Credits: 3

FREN318 French Composition Frequency: B Syntactical patterns of French, vocabulary building, translation, and free composition. Useful techniques of composition, problems of translation and questions of style discussed. Prerequisite Courses: FREN 216 Credits: 3

FREN319 Survey of French Literature I Frequency: B History of principal movements and writers, from the beginning through the 17th century, studied in light of historical and social backgrounds. Lectures in French. Student reports. Prerequisite Courses: FREN 316 Credits: 3 FREN320 Survey of French Literature II Frequency: B History of principal movements and writers, from the 17th century to the present, studied in light of

historical and social backgrounds. Lectures in French. Student reports. Prerequisite Courses: FREN 316

Credits: 3

FREN323 France Today Frequency: D France today is a country struggling with the tensions of social and economic modernization. The subject matter, therefore, will be actual and current in an effort to understand the broad sweep of social, economic, political, and cultural changes in post-war France. Credits: 3

FREN341 Le Grand Side Frequency: D Detailed study of 17th century French classicism, its formation, flowering. Student reports, discussions. Prerequisite Courses: FREN 316 Credits: 3 FREN351 The Enlightenment Frequency: D Major works of 18th century French literature; emphasis on Montesquieu, Voltaire, Diderot, Rousseau, Marivaux, and

Rousseau, Marivaux, and Beaumarchais. Prerequisite Courses: FREN 316 Credits: 3 FREN361 Contemporary French Literature

Frequency: D Novel and theater since Proust. Emphasis on post-1940 trends: existentialism, the New Novel and Theatre of the Absurd. Prerequisite Courses: FREN 316 Credits: 3 FREN400 Special Topics in

French Frequency: C Special areas in French language, literature, or culture and civilization not covered by regular courses. Credits: 1-3

FREN410 Directed Study Frequency: D Individual directed study of a particular area or topic in French language or literature. Periodic meetings with instructor, writing of a substantial paper. Credits: 1-3

FREN417 Romanticism and Realism Frequency: D Detailed study of literary movements and major writers of 19th century. Prerequisite Courses: FREN 316 Credits: 3

FREN421 Advanced French Pronunciation/Diction Frequency: B Study of phonetics. Intensive drill in intonation and articulation. Prerequisite Courses: FREN 215 FREN 216 Credits: 3

FREN422 Advanced French Conversation Frequency: D Intensive practice in spoken French. Prerequisite Courses: FREN 317 and FREN 421 Credits: 3 FREN423 Senior Seminar Frequency: B Allows qualified upper-level students to supplement course offerings or probe more deeply into areas of their own interest. Credits: 3

FREN424 Stylistics Frequency: B To give feeling for French style, shades of meaning, and mastery of stylistic difficulties not taken up in more elementary courses. Study of classic French prose; translations and free composition. Prerequisite Courses: FREN 318 Credits: 3

FREN500 Special Topics in French Frequency: D Special areas in French not covered by regular courses. Permission of department. Credits: 1-3

FREN510 Directed Study in French Frequency: D Individual supervised study of particular area or topic in any of the department's French language or literature offerings. Periodic meetings with instructor and writing of a substantial paper. Permission of department. Credits: 1-3

Geosciences (GEO)

GEO121 Landform Geography Frequency: B An introduction to the field of geography, with particular emphasis on the driving physical forces and processes that shape the earth's surface. The impact on human activities and patterns will be examined. A spatial approach will be used to study the nature and character of physical space including measurements, relations, locations, and the distribution of phenomena. The course will meet twice a week in a traditional classroom setting and once a week in a laboratory setting, which will include occasional field trips to explore the local area in an effort to observe how landforms, vegetation and microclimate vary over short distances. Credits: 3

GEO140-149 Mini Courses in Geosciences Frequency: A A series of five-week introductory courses exploring topics in the geological sciences. Any three fulfill the CCC natural science requirement. 140 Catastrophic Weather 141 Age of Dinosaurs 142 Drifting Continents 145 Geology of New York State 146 Great Ice Age 148 Trembling Earth 149 Volcanoes GEO150 Moons and Planets Frequency: B Historical and scientific treatment of the solar system. Emphasis on the development of astronomical thought from ancient times to the flowering of modern concepts of planetary origins and evolution. Problem sets deal with analysis of classical and modern concepts, including mathematical solutions. High school math through Math III suggested, but not required. Credits: 3

GEO160 Oceanography Frequency: B Origin of the oceans, chemical and physical properties of sea water, circulation of the oceans, waves, tides, shoreline processes, marine biology, and the productivity of the ocean. Credits: 3

GEO165 Geology I Frequency: A Introduction to earth materials (minerals, rocks, soils); Earth's interior structure; geological processes in operation on and beneath the surface of the earth and their effects (weathering, erosion, deformation and geologic structures, earthquakes, plate tectonics, ocean basins, running water, ground water, glaciers, winds and deserts, coasts and shorelines); techniques of dating geological events. Lectures, group discussion. High school background in earth sciences not required. Geosciences majors and minors, including Elementary/ Childhood Education Science/ Geoscience Concentration majors. should take GEO 169 General Geology Lab as a co-requisite. Credits: 3

GEO169 General Geology Lab Frequency: A Laboratory introduction to topographic and geologic maps, and earth materials (minerals, rocks and fossils). Exercises include use of these tools to recognize and interpret geological processes, history and structure. Prerequisite or Corequisite Course: GEO 165 Credits: I

GEO180 Weather and Climate Frequency: B Introduction to the transitory and long-term physical, chemical, and dynamic states of the atmosphere, measurement of weather factors, weather forecasting, regional climates, climatic change, weather and climate modification, and practical aspects and applications of weather and climate. Credits: 3

GEO210 Geology II Frequency: B Physical history of the earth in relationship to orderly development of life throughout geological time. Lecture format. Prerequisite Courses: GEO 165 Credits: 3 GEO15 Minerals and Rocks Frequency: C Theory, geological occurrence, and identification of the common minerals and rocks. A well-written report, critiqued and returned for revision, is required. Laboratory work includes a brief introduction to the petrographic microscope,

to the petrographic microscope, but mostly emphasizes hand specimen identification. Two-day field trip to the Thousand Islands/Laurentian lowlands of New York State, or to Bancroft, Ontario mineral localities. Prerequisite Course: GEO 165 Credits: 4

GEO301 Cartography Frequency: B

Comprehensive treatment of maps and map making. Includes the history of maps and their construction from ancient times to present, including affect on history and politics. Also entails essential elements of maps, their construction by manual and computer means, and how they are used to express information. Lecture and lab. Can be taken as GIS elective. Credits: 4

GEO311 Global Climate Frequency: B Introduction to the transitory and long-term physical, chemical, and dynamic states of the atmosphere, measurement of weather factors, weather forecasting, regional climates, climatic change, weather and climate modification, and practical aspects and applications of weather and climate. Prerequisite: Any introductory science course. Credits: 3

GEO329 Regional Field Geology Frequency: C Participants are exposed to issues of

regional Historical Geology during a seven-day field trip (Summer I). Students obsetve the record of multiple mountain-building episodes and basin evolution through a series of roadcut, stream, and quarry exposures. Aspects of the geologic record including cross-cutting relationships, biostratigraphy and paleoenvironmental inference are used at stops to reconstruct the regional geology puzzle. Knowledge of structural geology is recommended but is not essential. This course applies principles leamed in GEO 210, but it also supplements information in GEO 345, GEO 370, and GEO 400. Students attend several orientation classes during the spring semester in preparation for the field course. During the course, students keep notes and prepare a field diary containing information from field stops. The course grade is based on the notebook turned in upon completion of the course. Offered in years when GEO 461 is not offered. Prerequisite Courses: GEO 210 Credits: 2

GEO330 Geomorphology Frequency: B Study of geomorphic processes, relating topographic features to underlying rocks and structures and to processes of erosion, deposition, and earth movements. Lectures and laboratory supplemented by field work. Library research leads to a written term paper. Prerequisite Courses: GEO 165 and GEO 169 Credits: 4

GEO331 Restless Earth Frequency: D This course links the many time frames and events of geodynamics ranging from continental drift to earthquake hazards. The subject is presented from several viewpoints, including the history of science, spatial and temporal distribution of hazards and resources, and impacts on culture. Learning activities include small group discussions, computer manipulation of spatial data, reading from historical writings of scholars such as Lyell and Darwin, and review of cultural impacts through paintings and films. Prerequisite: Any introductory science course. Prerequisite Course: GEO 165 Credits: 3

GEO335 Geophysics Frequency: C Emphasis on how problems dealing with the shape, mass, structure, composition, and tectonic history of the Earth can be resolved using such methods of geophysics as gravity, magnetics, and seismology. Lectures, laboratory, and field work lead to several written papers. Prerequisite Courses: GEO 165 and GEO 169 Credits: 4

GEO341 Stars and Galaxies Frequency: D Properties and evolution of stars. Description and origin of galaxies, quasars, black holes and other objects in the known universe. Lecture format. Any introductory science course is required. Credits: 3

GEO345 Paleontology Frequency: C Principles of paleontology: biologic relationships of fossil organisms, particularly ancient invertebrates. Emphasizes evolutionary principles and trends. Field work supplements lecture and laboratory. Prerequisite Courses: GEO 210 Credits: 4 COURSE

GEO359 Vanishing Earth

perspectives on the Earth's

resources. A broad range of

global commons, resource

management, sustainable

An interdisciplinary synthesis of

resources will be discussed in the

context of population growth, the

development, and environmental

policy. The course will focus on

the measurement, analysis, and

evaluation of resources such as

soils and landforms, atmosphere

Prerequisite Courses: GEO 121 or

minerals, vegetation, animals,

GEO370 Structural Geology

Theoretical aspects of stress and

systems; description and origin of

Laboratory work stresses structural interpretation of geologic

strain as applied to natural rock

rock structures in Earths crust.

maps. Field work supplements

on some aspect of structural

geology; part of the revision

GEO400 Stratigraphy

Principles of stratigraphy with examples of stratigraphic

sedimentary basins around the

techniques of basin analysis and

mechanisms of basin formation.

course. In addition, students are

describing their results of a field

Prerequisite Courses: GEO 165

section of western New York.

and GEO 169 and GEO 210

GEO410 Directed Study

Credits: 4

Frequency: A

Credits: 1-3

Frequency: C

and GEO 165

Credits: 4

required to submit a written report

stratigraphic study of the Devonian

Independent study and research in

areas beyond formal courses.

An introduction to descriptive

crystallography and to chemical, physical, determinative and

descriptive mineralogy. Areas covered include crystal symmetry,

classification, morphology, crystal

geologic occurrence, significance and characteristic properties of

minerals. Lectures and laboratory

Prerequisite Courses: CHEM 115

supplemented with one field trip.

chemistry, physical properties,

Permission of department.

GEO411 Mineralogy

The writing and peer review of

abstracts are stressed in the

successions from various

world. Course emphasizes

lectures and laboratory. Students

are required to complete a paper

processes will include peer review. Prerequisite Courses: GEO 120

and climate, and water.

GEO 165

Credits: 3

Frequency: B

and GEO 165

Frequency: B

Credits: 4

Resources

Frequency: C

DESCRIPTIONS

GEO421 Petrology

Frequency: C

Lecture emphasis on problems and hypotheses invoived with the origin of rocks. Laboratory stresses use of the petrographic microscope for identification, description, and analysis of rock materials. A well-written research paper, which may include computer, lab, and library research, is required. Course includes a weekend trip to study classic rock terrains in the Adirondack Mountains. Prerequisite Courses: GEO 411 Credits: 4

GEO431 Geochemistry Frequency: C Scope, literature, and history of geochemistry. Principles and applications of geochemistry, including the elements: isotope geology: thermodynamics; water chemistry: crystal chemistry; organic geochemistry; geochemistry of sedimentary, igneous and metamorphic rocks. Lab work emphasizes instrumental methods of analysis. Prerequisite Courses: GEO 411 Credits: 4

GEO445 Geosciences Internship Frequency: A Approved work-training experience with state or federal agency, museum, or industrial firm. Permission of department. Credits: 1-15

GEO450 Hydrogeology Frequency: B Hydrologic problems are analyzed by organizing information into a water budget and then quantifying the variables in the water budget equation. Common hydrologic variables include precipitation, evaporation, transpiration, stream flow, infiltration and groundwater. Groundwater is emphasized. Lectures supplemented by field work, lab measurements, and computer modeling. Prerequisite Courses: GEO 165, GEO 169, and GEO 330 Credits: 4

GEO455 Laboratory Supervision in Geosciences Frequency: A Students serve as laboratory assistants under supervision of faculty member. Four hours of work per week expected for each hour of credit elected: may be taken more than once. Does not count toward major requirements. Permission of the chairperson. Credits: 1

GEO459 Seminar in Geosciences Frequency: A Individual student presentation of two 20-minute seminars pertaining to the geology and geologic evolution of different provinces of the North American continent. Students are required to prepare an abstract and bibliography of their presentations. Permission of department. Credits: 1

GEO461 Field Geology Frequency: C Two-week geologic mapping course immediately following end of spring semester (Summer I). Held at Catskill, NY. Prerequisite Courses: GEO 370 Credits: 3

GEO471 Senior Thesis Frequency: A Research leading to a comprehensive report reviewed and evaluated by faculty. Open to B.S. Geology majors in Honors Track only. Permission of department/enrollment in B.S. Geology Honors track. Credits: 3

GEO480-489 Special Topics in Geosciences Frequency: A Special area of geosciences not covered by regular courses. Credits: 1 - 4

GEO580-589 Special Topics in Advanced Geosciences Frequency: D Special areas of problems in advanced geosciences not covered by regular graduate courses. Credits: 3

GEO590 Independent Study Frequency: D Independent study of topics not covered in regular graduate course offerings and pertinent to student's program of study or future career. Credits: 3

GEO610 and 615 Independent Research Frequency: D Independent research and study in current geoscientific problems based on laboratory and field research or current literature. Credits: 3

GEO690 Thesis Research Frequency: D Thesis research projects in an area of the geosciences. Credits: 1-3

German (GERM)

GERM115 Elementary German I Frequency: A For students with no previous preparation. Study of fundamental speech patterns. Initial stress on listening comprehension and oral ability. Progressively greater emphasis on reading and writing skills. Credits: 3

GERM116 Elementary German II Frequency: A Continuation of GERM 115. Further introduction to fundamental speech patterns of spoken German. Increasing stress on listening comprehension, oral ability, reading and writing skills. Prerequisite Course: GERM 115 Credits: 3 GERM215 Intermediate German I Frequency: D Continuation of oral and aural training; broadens reading and listening experience. Prerequisite Courses: GERM 116 Credits: 3 GERM216 Intermediate German II Frequency: D Increases student's ability to read, write, understand, and speak German through written analysis and discussion of German literary and expository works. Prerequisite Courses: GERM 215 Credits: 3 GERM317 German Conversation Frequency: D Conversational exercises: reports, discussions. Readings from newspapers and cultural texts stressing contemporary colloquial German. Emphasis on idioms Prerequisite Courses: GERM 215 Credits: 3 GERM318 German Composition Frequency: D Practice in writing colloquial and formal German. Emphasis on idioms; style and structure in dialogue, descriptive and critical writiing. Prerequisite Courses: GERM 215 Credits: 3 GERM323 Germany Since 1918 Frequency: D Cultural aspects of the Weimar Republic, the Third Reich, and contemporary Germany. Guest lecturers, readings, and films. in English. Credits: 3 GERM387 German Songs Frequency: D Literary background and analysis of selected Lieder. In English. Co-requisite Courses: MUS 387 Credits: 1 GERM400 Special Topics in German Frequency: D Special areas in German language, literature, or culture and civilization not covered by regular courses. Credits: 1-3 GERM410 Directed Study Frequency: D Individual directed study of a particular area or topic in German language or literature. Periodic meetings with instructor, writing of

a substantial paper.

Credits: 1-3

Information Systems (GIS) GIS201 Geographic Information Systems I Frequency: B The essential theory, components, and applications of Geographic Information Systems, including data structures, database management, spatial analysis, and automated mapping technology. The lab work will introduce students to commercially available Geographic Information Systems software Credits: 3 GIS301 Geographic Information Systems II Frequency: B The expanded theory, components and applications of Geographic Information Systems. This course builds on topics presented in GIS 201 Geographic information Systems I, and introduces students to additional commercially available Geographic Information Systems software. Prerequisite Courses: GIS 201 Credits: 3 GIS350 Remote Sensing/Image Processing Frequency: C Study of the conditions and/or state of remotely sensed objects and scenes. Application to many real world problems including harvest prediction, containment migration, forest mapping, resource delivery, and extraterrestrial exploration. image processing, pattern recognition, and geographic information systems (GIS). Prerequisite Courses: CSIT 121 Credits: 3 GIS360 Mapping the Social World Frequency: C Representation and analysis of the spatial structure of the social world using geographic information systems (GIS). Exploration of how such technology is used to exploit and commercialize the social world in ways that serve the interests of those who control the technology and how it could provide opportunities to redraw boundaries and identify new social spaces. Prerequisite Courses: GIS 301 Credits: 3

Geographic

GIS370 Earth Systems Science Frequency: C The synthesis and development of a holistic model by which disciplinary processes and actions lead to synergistic interdisciplinary components. Topics include, earth system history; remote sensing; biosphere; atmosphere; economics; sustainability and natural resources; earth energy budget; El Nino; hydrological cycle; biogeochemistry; human environmental interactions; health and climate changes; soil processes; land use/land cover . changes. Prerequisite Courses: GIS 201 credits: 3 GIS401 Special Topics in GIS Frequency: D In-depth examination of GIS topics introduced in GIS 201 or GIS 301. May be taken more than once as topics vary. Prerequisite Courses: GIS 301 Credits: 3 GIS450 Directed Study Frequency: A Participation in GIs-related faculty

Credits: 3 GIS460 Teaching Assistant Frequency: A Students have the opportunity to assist the instructor in the laboratory components of GIS 201 and GIS 301. Credits: 1-3

research.

GIS480 Independent Study Frequency: A Individualized study under the close supervision of a faculty member. Students should have specific topics or projects in mind before approaching an instructor. Credits: 3

GIS490 Internship Frequency: A Provides opportunities for testing concepts and applications presented in the classroom. Interns have found opportunities in both the public and private sector. Credits: 3 - 6

GIS590 Directed Study Frequency: A Graduate level participation in GIS-related faculty research. Credits: 3

GIS591 Special Topics in GIS Frequency: D Graduate level examination of general GIS theories, components, and applications. May be taken more than once as topics vary. Credits 1 - 3

GIS690 Internship Frequency: A Provides graduate students with opportunities to test concepts and applications of GIS in either the public or private sector. Credits: 3

Hebrew (HEBR)

HEBR490 Independent Study in Hebrew Frequency: D Independent study of elementary Hebrew. Emphasis will be on writing and speaking skills. *Credits: 3*

History (HIST)

HIST100 History Freshman Seminar Frequency: B A one-credit course designed to help incoming freshmen especially prospective history majors, minors, and social studies majors -to succeed at SUNY Fredonia. The course will introduce first year students to the academic, social, and citizenship aspects of college life. Further, it will introduce prospective History majors/minors and Social Studies majors to departmental personnel, expectations, and career opportunities in History and associated disciplines. The course will also increase student awareness of the special techniques appropriate to the successful study and enjoyment of History and related disciplines. Finally, the seminar will introduce the student to the wide range of college resources, functions, and extra-curricular opportunities available 20 the Fredonia student. Credits: 1

HISTIOI World History I Frequency: A Survey of the human experience from the Neolithic Revolution to the linking of the world (3500 B.C.E. - 1500 C.E.). *Credits:* 3

HIST102 World History **II** Frequency: A Survey of the human experience from the linking of the world to the present (1500 C.E. - 2000 C.E.). *Credits:* 3

HIST105 United States History I Frequency: A Survey from colonial times to 1877 of political, economic, social, and cultural development of America, including examples from New York State.

Credits: 3

HIST106 United States History II Frequency: A Survey from 1877 of political, economic, social, and cultural development of America, including examples from New York State. *Credits:* 3

HIS107-114 Themes from American History Frequency: D Exploration in-depth of single themes from the history of America. Specific themes vary from semester to semester. Course may have co-requisite. *Credits:* 1-3 HIST115 Western Civilization I Frequency: A A survey of the major ideas, events, cultural trends, experiences, traditions and achievements of the West. The class will follow the ebb and flow of progress and failures that have framed the Western World from the birth of civilization to the Age of Exploration. *Credits:* 3

HIST116 Western Civilization II Frequency: A A survey of the major ideas, events, cultural trends, experiences, traditions and achievements of the West. The class will follow the ebb and flow of progress and failures that have framed the Western World from the rise of the nation state to the present day. *Credits: 3*

HIST118 Themes from Western Civilization Frequency: D Exploration in-depth of single themes from history of the Western world and its antecedent civilizations. Specific themes, which vary from semester to semester. *Credits: 1-3*

HIST119-130 Themes from Western Civilization Frequency: D Exploration in depth of single themes from history of the Western world and its antecedent civilizations. Specific themes, which vary from semester to semester. *Credits: 1-3*

HIST201 Doing History Frequency: A Format varies depending on instructor, but all sections include intensive instruction in methods of historical reading, research, analysis, and writing. About 20 to 30 pages of required written work each semester. History and Social Studies majors should take the course in the sophomore year. Prerequisite: Sophomore standing. *Credits: 3*

HIST202 Applied History Frequency: D Introduces students to applied historical research. Focus varies with semesters, e.g., creation of historical documentaries; local history archives and research. *Credits:* 3

HIST203 History Through Films Frequency: D Examination of life, values, and beliefs of various cultures, countries, and epochs as exhibited in films. Film images compared with historical writing. Course may have co-requisite. *Credits:* 1-3 HIST205 History and

Introduction to the Windows

environment, use of search

HIST212 History of the

The Nazi murder of six million

sole purpose of eliminating

Jews and perhaps 10 million other

people during World War II, for the

undesirable people, may be the

This introductory, multimedia

seminal event of the 20th century

course surveys the Nazi programs

of mass murder, explores their historical roots, and examines their

consequences for our world today.

HIST215 Holidays and American

This course will examine the

meanings of American holidays

present. Issues to be considered

have shaped cultural values and

American identity and vice versa;

the ways in which holidays have

both reflected and shaped views of

gender, race, class, and ethnicity;

nationalism, consumer culture and

political ideology. The course will

Interdisciplinary approach to race and ethnicity in the United States

multiethnic/multiracial societies.

communication and media from

newspapers, photography,

broadcasting, and cable and

HIST261 Islamic Civilization

The political, religious and social

from pre-Islamic to Napoleonic

development of the Islamic Empire

telecommunications, including the

Communication:

and the relationships between

holidays and religious belief,

take a multicultural and

Credits: 3

Ethnicity/Race

Frequency: A

Credits: 3

HIST252

Credits: 3

era.

Credits: 3

Frequency: C

Yesterday/Today

Evolution of Western

the printing press to

satellite transmissions.

Frequency: D

interdisciplinary approach.

HIST220 Introduction to

and other contemporary

include the ways in which holidays

invention, celebration, and

from the colonial era to the

engines, critical analysis of web

resources. Intended primarily for

History and Social Studies majors.

Workshop

Technology

Frequency: B

Credits: 1

Holocaust

Credits: 3

Frequency: C

Culture

Frequency: B

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HIST264 East Asian Civilizations Frequency: B Introduction to the history and cultures of East Asia from the Neolithic Revolution to the nineteenth century. The course focuses primarily on the domestic economic and political developments of China and Japan, but, where appropriate, it also includes aspects of the history of Central Asia, Korea and Southeast Asia. Similarity and diversity of these civilizations, cultural interrelation and regional interaction, and contact with the West, are among the topics to be covered. Credits: 3

HIST265 Premodern East Asia Frequency: D The development of East Asian civilization from the Neolithic Revolution to the end of the 16th century, with emphasis on the classical philosophers, the growth of states and national economies, cultural exchange, and scientific and technological achievements. *Credits: 3*

HIST266 Modern East Asia Frequency: D The history of East Asia from 1700 to the present. Covers domestic economic and political developments, interaction between the cultures and nations of the region, interaction with the West, and the revolutions of the 19th and 20th centuries. *Credits: 3*

HIST268 History of South Asia Frequency: B Survey of the subcontinent from the Indus civilization to the present (3000 B.C.E. - 2000 C.E.). *Credits: 3*

HIST272 Africa to 1800 Frequency: B This course is a survey in African History from the 9th to the 19th centuries. Topically, it focuses on the relationship between major economic activities, including long-distance trade, and political transformations, such as the building of empires, and how they contributed to the spread of world religions such as Islam and Christianity. Examples will be drawn from four major regions: Northwest Africa (the Maghrib and Sahil), the East African (Swahili) coast, Southern Africa (the Zambezi basin and the Cape), and West Africa (Gulf of Guinea to the Congo). Credits: 3

HIST273 Africa Since 1880 Frequency: B A survey covering African History from the imposition of colonialism to the liquidation. A comparative and multiple- delivery approach, examining layers of the encounter between different European powers and Africans and addressing questions of power and power relations. *Crediis:* 3 HIST282 Pre-Columbian and Colonial Latin America Frequency: C An introductory survey of the history of early Latin America, from antiquity to the European conquest to the wars for independence in the early nineteenth century. Special attention is given to Native American and African influences in the shaping of cultural forms and political economy. Credits: 3

HIS1283 Revolution and Reform in Latin America Frequency: C An introductory survey of the history of modern Latin America, from the wars for independence in the early nineteenth century to nation-state building, reform movements, violent revolutions, and democratization in the twentieth century. Special attention is given to Native American influences in the shaping of modern society. The contested role of the United States in Latin American domestic policy also is considered.

HIS1289 Comparative North

Credits: 3

Frequency: C A survey of North American history that employs the methodology of comparative history to interpret the histories of the United States, Canada, and Mexico within a conceptual framework sensitive to continental similarities and differences. The course takes a thematic approach, and special attention is given to the political institutions and economic structures that have fostered transnational cooperation and continental integration. The social and cultural dimensions of discord and conflict also are examined. Credits: 3

HIST299 Experimental Course in History Frequency: D Varies in content from semester to semester. Consult college Course Offerings Bulletin and department notices for specific subject covered each semester. Credits: 1-3 HIST301 Greek World: Classical Greece

Frequency: C Evolution of Greek society from Minoan and Mycenaean culture to empire of Alexander the Great and his successors. Includes world of Homer, dark ages, the tyrants, colonial period, age of Pericles, rise of Macedonia, and the Hellenistic age. The legacy of Greece. Prerequisite Courses: HIST 101 or HIST 115 Credits: 3 HIS1302 Republican/Imperial Rome Frequency: C Legends and stories of Rome's foundation, early republic, absorption of Italy, Punic wars, conflicts of Iate republic. Augustus and the empire, the Pax Romana, time of troubles, decline and fall of the empire. The legacy of Rome. Prerequisite Courses: HIST 101 or HIST 115 Credits: 3

HIST303 Medieval History I Frequency: C History from legalization of Christianity by Constantine to Renaissance of 12th century. Includes Germanic invasions, Charlemagne, feudalism, the Crusades, birth of Europe, and first clashes of church and state. Prerequisite Courses: HIST 101 or HIST 115 Credits: 3

HIS1304 Medieval History II Frequency: C History from high Middle Ages to c. 1500. Includes decline of feudalism and serfdom, great disputes on religion and society, world of new cities and trade, the new national spirit, and end of medieval unity. Prerequisite Courses: HIST 101 or HIST 115 Credits: 3 HIST305 The Renaissance Frequency: D General study of European development during Renaissance. Major emphasis on social and cultural development. Slides, tapes, and films utilized. Prerequisite Courses: HIST 101 or HIST 115 Credits: 3 HIS1306 The Age of

Reformation Frequency: D Origins of Protestant and Catholic reformations will contribute to an understanding of the persistence of conflict. Intellectual issues of the age presented in light of social, cultural, economic and political conditions. Prerequisite Courses: HIST 101 and HIST 102 or HIST 115 Credits: 3

HIST309 The Modernization of Europe Frequency: C The major social, political, economic and cultural trends that have laid the foundations for our contemporary world: nationalism; scientific, technological and industrial revolutions; modern

ideologies, especially Marxism; modern militarism; imperialism; revolutions of 1789, 1830, 1848, 1905; modernization of society, life styles and values. Prerequisite Courses: HIST 102 or HIST 116 Credits; 3 HIS1311 Europe in the Modern World Frequency: C The major transition of European society from World War I, when Europe ruled the world, to its present status, newly liberated from the super powers of the Cold War, perhaps to be united as a new super power. Special attention to international tensions, fascism, and the Nazi and Soviet experiences Prerequisite Courses: HIST 102 or HIST 116 Credits: 3 HIS1312 Modern Germany Frequency: C

Germany from its modern unification in 1870 to its recent reunification. Emphasis will vary: nationalism and the impact of industrialization, imperialism; World War I and the revolution; problems of Weimar Republic; the Nazi experience, World War II, Holocaust; Cold War divisions, role in European unification and end of Cold War. Prerequisite Courses: HIST 102 or HIST116 Credits: 3

HIS1314 Imperial Russia Frequency: C The rise of Russia from Kievan times through the growth of autocracy and territorial expansion under Ivan the Terrible and Peter the Great, 'Westernization," and the development of radicalism, populism and Marxism from Catherine the Great through the Russian Revolution of 1917. Credit: 3

HIS1315 The Formation of France Frequency: D The social, political, economic and cultural history of France from 1200 to 1789. Emphasis on the rise of the monarchy, religious dissension, popular culture, the age of Louis XIV, the growth of Enlightenment thought and the origins of the French Revolution. Prerequisite Courses: HIST 101 and HIST 102 or HIST 115 Credits: 3

HIST316 Twentieth-Century Russia

Frequency: C A political, intellectual and social examination of Russia in the 20th century. Topics include the causes of the decline of the Czarist regime, World Wars I and II, the Stalin dictatorship, and the rise and fall of the Soviet Union as a military superpower. Credits: 3

Frequency: D The leading social, economic and political events since the revolution of 1789. The major theme is the transformation of a rural and agrarian society in conflict with an urban nucleus of heavy industry into a modem technological community in which the schisms of 1789 are no longer relevant. Prerequisite Courses: HIST 116 Credits: 3 HIST322 French Revolution and Napoleon Frequency: D A major turning point in the ideological, social, and constitutional evolution of the modern West. Far-reaching change during a decade of revolutionary turmoil, followed by the dazzling career of Napoleon, who introduced the ideas and institutions of the Revolution to Europe and at the same time provided the substance of modern tyranny. Prerequisite Courses: HIST 101

HIS1317 Modern France

and HIST 102 or HIST 116 Credits: 3

HIST323 Victorian Britain Frequency: C The transformation of Great Britain from an agrarian country governed by landed patricians to a nation directed by a commercial middle-class. The rise of democracy, an industrial economy, an urban society, public opinion, and a populist monarchy. Prerequisite Courses: HIST 101 or HIST 116 Credits: 3

HIST325 Colonial America Frequency: C American history from European settlement through the American Revolution. Focus on the lives and perceptions of ordinary men and women. Prerequisite Courses: HIST 105 Credits: 3

HIST326 Twentieth Century Britain

Frequency: C This course is intended to explore the history of Britain during the twentieth century. A range of political, social and economic developments will be examined, e.g. emergence of the welfare state, movements for political reform, imperial changes and the impact of two world wars. Prerequisite Course: HIST 102 or 116 Credits: 3

HIST327 Antebellum U.S., 1820-1861 Frequency: C Territorial expansion and resistance, the rise of the factory system and labor unions, political and cultural democratization, social reform, immigration and nativism, religious revivalism, slavery, and the causes of the Civil War. Prerequisite Courses: HIST 105 Credits: 3 HIST328 Civil War Era Frequency: C The roots of the Civil War in antebellum northern and southern societies, war-time military, political, and social developments in the North and South, the Reconstruction experiment, the retreat from Reconstruction and the legacy of the war in the immediate post-war era and today. Prerequisite Courses: HIST 105 Credits: 3

HIST330 Industrial America, 1890-1920 Frequency: C The transformation of the U.S. from a rural/agrarian to an urban/industrial society. Topics include the process of industrialization and social upheavals that resulted: the development of the New South and New West; the emergence of the U.S. as a world power: the challenge of ethnic/cultural diversification; and the social and political reform movements of the era. Prerequisite Courses: HIST 106

Credits: 3

HIST331 The Inter-War Years, 1919-1945 Frequency: C

The domestic scene in America from end of World War I to end of World War II, including discussion of business dominated 1920s, economic crisis and the New Deal of the 1930s, second World War, and other major trends, events, and figures.

Prerequisite Courses: HIST 106 Credits: 3

HIST332 US HY: 1945-Present Frequency: B The major cultural, economic, and political developments since World War II, including the Cold War, 1960s counterculture, Civil Rights movement, the Reagan era. Prerequisite Courses: HIST 106 Credits: 3

HIST333 African American History to 1877 Frequency: B Survey of the historical forces, within the African American community and elsewhere, which have shaped the African American experience. The course explores the cultural, social, and political development of African Americans from their African origins through Reconstruction. Credits: 3

HIST334 African American History since 1877 Frequency: B Survey of the historical forces, within the African American community and elsewhere, which have shaped the African American experience. The course explores the cultural, social, and political development of African Americans from Reconstruction to the present. Credits: 3 HIST335 American Women Frequency: C A survey of women's history from colonial times to present with emphasis on the changing status and definition of women's roles, race and ethnicity, and women's writings. Prerequisite Courses: HIST 106 Credits: 3 HIST336 African American Black Women's History Frequency: C Explores the history of women of African descent in the Americas, with a particular focus on the United States, Covers black women's experiences from their African origins, through the Middle Passage, in enslavement, and in freedom. Issues addressed include labor, the black family, cultural expression, and racial identity (in comparative perspective). Prerequisite Courses: HIST 333, HIST 334, ENGL 240, or ENGL 340 Credits: 3 HIST338 19th Century American Culture Frequency: C Examines how social, political, andeconomicchangeshave affected American culture and Americans' lives. Topics include consumption patterns: recreational activities: architectural styles: high and popular culture; family life: and social and cultural rituals. Prerequisite Courses: HIST 105 Credits: 3 HIST339 20th Century American Culture Frequency: C Examines how social, political, andeconomicchangeshave affected American culture and Americans' lives. Topics include consumption patterns: recreational activities: architectural styles: high and popular culture; family life: and social and cultural rituals Prerequisite Courses: HIST 106 Credits: 3 HIST340 The Westward Movement Frequency: D The importance of the frontier and the expanding West to the development of the U.S., its history, institutions, beliefs, values, and national character. The West as myth and reality, from colonial times to issues confronting the 20th century trans-Mississippi West Prerequisite Courses: HIST 105 or HIST 106 Credits: 3 HIST342 The American Century Frequency: C The major issues in American foreign policy in the 20th century. The focus is on America's economic ascendancy and the effect of this prominence on 20th century world order. Prerequisite Courses: HIST 106 Credits: 3

Social Thought Frequency: C Critical reading of primary texts authored by African American social thinkers beginning in the 19th century up to the present day. Special emphasis on placing these writings within the scholarly debates about the paradigmatic theories of race relations - integrationism, accommodationism, and separatism/ nationalism Prerequisite Courses: HIST 333 or HIST 334 Credits: 3 HIST345 Asian American History Frequency: C This course explores the experiences of Asian Americans from the mid-19th century to the present. Topics will include Asian diasporas in the United States; immigration and settlement issues: work and labor systems: racial ideologies and anti-Asian movements: gender, family and community formation; Asian Americans in American popular culture: Asian American cultural expressions and social organization: and American nationalism and debates over American citizenship.

HIST344 African American

HIST347 U.S. Immigration Frequency: C Immigration to the U.S., with an emphasis on comparing the experiences of European, African, Latin American, and Asian immigrants. Topics will include immigrants' lives, work, and communities: assimilation and cultural persistence; and the development of U.S. immigration policy. Prerequisite Courses: HIST 105 or HIST 106 Credits: 3

Credits: 3

HIST349 U.S. Military History Frequency: D The development of American military strategy and tactics. Focus on Civil War, World War I, and World War II. Credits: 3

HIST350 Vietnam/National Security State Frequency: C American foreign policy from F.D.R. to Nixon and its effects on Vietnam, American domestic policy and the growth of the National Security State. Prerequisite Courses: HIST 106 Credits: 3

HIST351 Defining America Frequency: D Examines how private citizens, writers, politicians, business, the media and popular culture have defined America since 1776, how these definitions have changed over time, and the impact of race, ethnicity, gender, and class on these definitions. Prerequisite Courses: HIST 106 Credits: 3 HIST353 U.S. Consumer Culture Frequency: C Examines the historical development of a consumer culture and its effects. Topics include the roots of consumer culture: the role of the industrial revolution: the development of marketing: and how consumption altered American life and culture in the twentieth century. Prerequisite Courses: HIST 106 Credits: 3

HIST355 American Religious History Frequency: D American religion from the Puritans to the present as set in the larger social, economic and cultural context. Prerequisite Courses: HIST 105 or HIST 106 Credits: 3

HIST356 American Indian History Frequency: B A survey of the history of North America from the perspective of American Indians, covering topics from the period before contact through the present. Possible topics may include precontact history and societies, the challenges of contact and colonization, Indian Removal, and continuing questions of sovereignty and treaty rights. Credits: 3

HIST358 20th Century American Indian Issues Frequency: C American Indian peoples in the twentieth century. Emphasis on federal policy development, the growth of political pan-Indian movements, the Indian image in popular culture, and current issues raised in the writings of contemporary authors representing a diversity of Indian nations. Prerequisite Courses: HIST 356 Credits: 3

HIST361 Modern Middle East Frequency: C History of the Modern Middle East (18th-20th century) with emphasis on the social, political and economic repercussions of the Western presence in the region. Prerequisite Courses: HIST 261 Credits: 3

HIST366 Late Imperial China Frequency: B From the late Ming dynasty to the fall of the Manchu Qing dynasty in 1912. Covers the rise of the Manchus, political and cultural developments in the Qing empire, and the Western impact in the 19th century. Prerequisite Courses: HIST 264 Credits: 3

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HIST367 20th Century China Frequency: B From the fall of the Manchus (1 912) to the present. Covers political and cultural developments, including nationalist and Communist revolutions, the Anti-Japanese War, and the People's Republic through the post-Mao reforms. Prerequisite Courses: HIST 264 Credits: 3

HIST368 Modern Japan Frequency: D Japanese history from the founding of the Tokugawa shogunate to the present. Covers political and cultural developments during the shogunate, the Meiji Restoration, domestic political and cultural developments, and Japan's interactions with the West and other East Asian nations in the 19th and 20th centuries. Prerequisite Courses: HIST 264 Credits: 3

HIST375 History of Authority Frequency: D Interdisciplinary analysis of the methods of domination and control employed in major Western cultures since the 17th century. Focus on 19th and 20th century United States. Prison, schooling, the market system, hegemony, the welfare state, narrative and the media. Credits: 3

HIST376 Film and American Culture Frequency: D

Examines the links between film and American culture and society from the silent era to the present, with some emphasis on the Great Depression, the post-World War II years, and the 1980s. Thematic concerns include race and ethnicity, sexuality and gender, class, identity, postmodernism, voyeurism, and the new age. Ten or 11 screenings each semester. Credits: 3

HIST378 Canada and the Canadians Frequency: C Contemporary Canada: history, geography, population, parliamentary government, economic structure, free trade, Quebec nationalism and the British legacy. Credits: 3 HIST380 Pre-Columbianl Colonial Mexico Frequency: C Comprehensive examination of the early history of Mexico, including the political, economic, social, and cultural complexities of antiquity, the violence of the Conquest, and the structural transformations that took place in Indian Mexico after the arrival of the Spanish. Special attention is given to the cultural and political legacies of the Spanish influence in Mexico, with an eye toward assessing the domestic and global trajectories that pushed the colony to declare its independence from Spain in 1810.

Credits: 3

HIST381 Mexico in the Modern World

Frequency: C Comprehensive examination of the political, economic, and cultural history of Modern Mexico from the end of the colonial period through the nineteenth and twentieth centuries, a time-line marked by foreign invasions, dictatorships, modernization, social revolution and democratization. The course also evaluates the historical processes that have transformed Mexico into a strategic ally of the United States, as well as the tensions and discord that have often characterized the political and social relationship between the two countries. Credits: 3

HIST385 International Communication Frequency: D An examination of the media in a global context. Attention is focused on public and private management, regulatory mandates, and programming and publishing philosophy in the global village. Topics include cultural exchange and interaction between the media and consumers. Credits: 3

HIST386 Global Studies Frequency: C Study of cross-cultural encounters based on case studies from Africa, Asia, and the Americas (e.g. Spanish and Aztecs in Mexico; Dutch and Mughals in India; British and Zulus in South Africa). credits: 3

HIST387 Comparative Slave Societies Frequency: C The development, effects, and elimination of slavery in different societies and in various eras. Includes historians' debates on slavery and its impact. Credits: 3 HIS1388 Origins of Civil Liberty Frequency: D Medieval origins of modern constitutional rights; the historical origins and development of modern social rights and institutions, e.g., jury trial, habeas corpus, due process, voting. Prerequisite Courses: HIST 101 and HIST 102 or HIST 115 Credits: 3

HIST389 Religion in Western Tradition

Frequency: C Historical development of three great monotheistic faiths: Judaism, Christianity, Islam. Comparison of these creeds with earlier religions. The development of monotheistic faiths and their divergent branches and heresies into modern times. Changing religious ideals, values and practices over time. Prerequisite Courses: HIST 101 and HIST 102 or HIST 115 or HIST116 Credits: 3

HIST390 Interpreting the Global Past Frequency: D Introduction to recent world history scholarship, exploring interpretations and understandings of certain topics and time periods from the age of transregional nomadic empires to the present (e.g. dependency and world systems analysis, the "rise of the West" and the "decline of the East," "New or High" Imperialism).

Credits: 3 HIST399 Experimental Course in History

Frequency: D Varies in content from semester to semester. Consult college Course Offerings Bulletin and department notices for specific subject covered each semester. Credits: 1-3

HIST400 Directed Study Frequency: A In-depth exploration of an historical topic under the direction of a department member. Student must have instructor's approval before registering for course. Students should have specific topics in mind before approaching an instructor. Credits: 1-3

HIST401-402 Topics in Ancient History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3

HIST403-404 Topics in Medieval History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3

HIST405-408 Topics in Early Modern Europe Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3 HIST409-424 Topics in Modern/Contemporary Europe Frequency: D Subject matter and credit hours will vary by semester and by instructor Credits: 1-3 HIST425-426 Topics in Early American History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3 HIST427-429 Topics in 19th Century US History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3 HIST430-432 Topics in 20th Century U.S. History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: I-3 HIST460-469 Topics in Asian History Frequency: D Subject matter and credit hours will vary by semester and by instructor Credits: 1-3 HIST480-484 Topics in Latin American History Frequency: D Subject matter and credit hours will vary by semester and by instructor. Credits: 1-3 HIST490 Public History Internship Frequency: A Students interested in a career in public history may receive credit for an internship with an historical society, museum, archive, or other public history venue. Enrollment is to be arranged with an appropriate

faculty sponsor. Credits: 1-6

HIST499 Research Seminar Frequency: B Focus is on historiography and research methodology through preparation of a research paper based on primary sources. By invitation only. Prerequisite Courses: HIST 201 Credits: 3

HIST500 Special Topics Frequency: D Directed Study of a defined topic, to be arranged with and supervised by the instructor. Credits: 1-3 HIST623 Readings in World History Frequency: C Themes and issues in recent scholarship on world history. Credits: 4

HIST633 Graduate Research Seminar: World History Frequency: C Research topics and methodologies in World history. Credits: 4

HIST643 Readings in American History Frequency: B

A graduate-level introduction to the historical literature for a particular chronological period or subject. Content varies from semester to semester, according to instructor, yet all offerings have a pedagogical component. Possible topics include the colonial era; the family; the Civil War and Reconstruction; the African-American experience. Credits: 4

HIST653 Research Seminar in American History Frequency: C A graduate level research seminar in American history. Content varies according to instructor. Students will become familiar with the basic literature in the area of study and will conduct original research in that area. Credits: 4

HIST670 Curriculum Development Project Frequency: A Design, development and production of a curriculum unit relating to a particular topic in world history or American history. Topic design to be determined in consultation with a faculty advisor. Defended before a faculty committee. Credits: 4

Health Education (HLTH)

HLTH115 First Aid Skills and Knowledge Frequency: A Prepares student, through knowledge and skills, to meet the needs of most emergency situations when first aid care is required and medical attention is not readily available. Personal-safety and accident-prevention information incorporated to acquaint individuals with causes of many accidents, so that action may be taken to eliminate or minimize such causes. This course meets the coaching first aid requirements of the New York State Coaching Mandate. Credits: 2

HLTH215 Personal and Community Health Frequency: 6 To develop positive attitudes toward health and optimum living and to influence formation of good habits affecting one's physical, mental, and social well being. Emphasis will be on proper health behavior as it relates to the disease process. Brief consideration is given to the role of health agencies in assessing community health needs and coordinating activities to meet these needs.

Credits: 3

HLTH300 Education in Drugs/Alcoho/Tobacco Frequency: A Knowledge and methods in dealing with the problems of use of drugs, alcohol, and tobacco in elementary and secondary schools. Meets requirement for Education Law, Section 804, 804a, and 805. Limited to Education majors only. Credits: 1

HLTH302 Stress Management Frequency: A Identifies the mechanisms that generate the human stress response and their physical and psychological effects on the body and mind. The course also introduces the student to developing personal strategies for effective stress management. Credits: 1

HLTH303 Fitness and Nutrition Frequency: B The development of knowledge

and skills necessary to become personally responsible for fitness and nutrition. Contents will be used as a basis for assessment of personal fitness and nutritional status and necessary personal behavior modification. Investigation of basic fitness and nutritional facts, energy balance, obesity, dieting, nutrition as related to disease, for personal goal setting.

Credits: 2

HLTH343 Drugs and Behavior Frequency: A The course provides students with a basic understanding of the effects of legal and illegal drugs on physiological and psychological functioning, and how drugs influence personal and social behavior. Credits: 3

HLTH386 Wellness and Health Promotion

Frequency: A The course emphasizes wellness as a positive approach to health promotion. The course explores ways of establishing effective health strategies that affect the physical, emotional and social self, use the mind constructively, channel stress energies positively, express emotions effectively, and enable the individual to interact with others. Credits: 3 HLTH400 Internship Frequency: D Work under supervision in a community setting. Students are expected to complete 40 clock hours of direct service to individuals, groups, or organizations for each credit hour awarded. The internship will emphasize theory, knowledge and skills needed when working with and within groups and organizations. A learning contract encompassing job requirements, learning objectives and methods will be utilized to evaluate the intern. Credits: 1-6

COURSE

HLTH499 Independent Study Frequency: A The study of a particular topic related to Health and Wellness. Periodic meetings with an appropriate instructor will be scheduled. The topic may encompass individual research or a practical experience. Credits: 1-3

Honors (HONR)

HONR201-230 Honors Seminar Frequency: A Topics vary from semester to semester. Credits: 3

HONR300 Honors Colloquium Frequency: A

A discussion course for students in the Honors Program. Subjects of discussion range from current events to campus activities to metaphysical speculations. Credits: 1

HONR400-401 Honors Thesis Frequency: D Directed research leading to the preparation of a thesis. Credits: 3

Health Services Administration (HSA)

HSA330 Health Organizations Frequency: B The course is designed to introduce students to the application of organizational theory and research, and principles of administration in the management of a variety of health services organizations. Various aspects of management, including institutional planning and policy development, financial management and personnel administration are examined for hospitals, health maintenance organizations, skilled nursing and health facilities, and various community-based programs. Credits: 3

HSA350 and 390 Special Topics Frequency: D Special topics in Health Services Administration not covered in detail by regular courses and not offered regularly. Credits: 3 DESCRIPTIONS

HSA377 Health Administration Intern

Frequency: B Internships are designed to allow students to gain practical work experience and knowledge in health administration in an affiliated health facility. Six hours of academic credit are awarded for 240 hours of supervised work experience, including a rotation through major departments, and successful completion of one or more major projects. Students develop a Learning Contract approved by both the college and institution which specifies educational objectives, job requirements, and work schedules. Evaluation of student performance is based on reports from the on-site supervisor, daily logs, written material from the student's project(s) and a final paper. Permission of instructor. Credits: 1 - 15

Interdisciplinary Studies (INDS)

INDS1011 Colloquium Frequency: D Explores the basic concepts and views of Interdisciplinary Studies as well as offering an introduction to each area of specialization. Credits: 1

INDS105 Introduction to Indian Studies American Frequency: D Introduces students to the multi-disciplinary nature of American Indian Studies. The course is divided into three parts with each part emphasizing a different set of knowledges and approaches to the study of American Indians. The first part of the course will examine the historical relationships between American Indians and the U.S. government. Emphasis will be placed on changes in federal policies, and the importance of law in shaping American Indian geographies. Part two of the course examines the politics of "Indian Country," the environment, changing Indian demographics and economic development. Part three will focus upon cultural politics and will examine American Indian ethnic identity, representations of Indians in movies and literature, and Indian self-expression through literature and other expressive forms. Credits: 3

INDS220 Introduction to Ethnicity/Race Frequency: B Interdisciplinary beginning course on race and ethnicity in the United States and other contemporary multi-ethnic/multiracial societies. Credits: 3 INDS240 African American Literature and Culture Frequency: B An examination of major works by African American novelists, poets, dramatists, filmmakers, musicians, and essayists in terms of the intellectual and political concerns of their periods and locations. Crosslisted with ENGL 240 Credits: 3

INDS241 Introduction to Latino Literature and Culture Frequency: B Examines literature by Latinos in the U.S. including poems, short stories, novels, plays, and essays, but will also consider music, mass media representations, performance art, film and at least one documentary in order to give students a better picture of the cultures of U.S. Latinos (Chicanos, Puerto Ricans, Cuban-Americans, Dominican- Americans, etc). Designed for students with no previous knowledge of U.S. Latino cultures or Spanish. Not a complete historical survey, but will introduce students to key issues for understanding U.S. Latino literature with texts from conquest to contemporary. Credits: 3

INDS242 American Indian Literature Frequency: B Study of a variety of works, including traditional tales and lyrics, tale cycles, novels, poems, and memoirs, produced by Native Americans from historical beginnings to the present. Cross-listed with ENGL 242 Credits: 3

INDS285 Mock Trial I Frequency: B Preparation of case materials for participation in the trial competition sponsored by the American Mock Trial Association. Competition includes both civil and criminal litigation. Credits: 0

INDS287 Mock Trial II Frequency: B Preparation of case materials for participation in the trial competition sponsored by the American Mock Trial Association. Competition includes both civil and criminal litigation. Credits: 0

INDS304 Latina Literature and Cultural Studies Frequency: C Study of contemporary Latina representations through the examination of literature, film, mass media, music, ethnography. Focus of course is on U.S. Latina and transnational Latina identities. Credits: 3 INDS400 Independent Study Frequency: D Intensive individual study of some aspect of multicultural studies involving a paper or project in support of the findings Credits: 3

INDS401 International Studies: Senior Colloquium Frequency: D Approved and supervised work training experience in a multiethnic organization. Results to be communicated to faculty and students in a public forum. Credits: 1

INDS402 African American Capstone Frequency: B The capstone experience for the African American Studies minor. Selected interdisciplinary reading, research, discussions and reports on current issues in African American Studies. Credits: 3

INDS403 Latino Studies Capstone Frequency: B The capstone experience for the Latino Studies minor. Selected interdisciplinary reading, research, discussions, and reports on current issues in Latino Studies. Credits: 3

INDS404 Native American Capstone Frequency: B The capstone experience for the Native American Studies minor. Selected interdisciplinary reading, research, discussions, and reports on current issues in Native American Studies. Credits: 3

INDS480 Independent Study Frequency: A Open only to Interdisciplinary Studies majors. Proposed independent studies must be described in the student's approved Interdisciplinary Studies proposal. Credits: 1-6

INDS489 Special Topics Frequency: B Topics of special or current interest offered periodically and taught from an interdisciplinary perspective. Credits: 1-3

INDS490 Internship Frequency: A Open only to Interdisciplinary Studies majors. Students proposing internships must have an approved Interdisciplinary Studies proposal which includes the internship. Additionally, they must have a faculty sponsor and a detailed plan for the internship describing; (1) the duties approved by the interning agency; (2) the student's method of reporting or reflecting on the internship experience; (3) the method of internship evaluation: and (4) the amount of credit to be earned. Credits: 1-15

INDS491 African American Studies Internship Frequency: D Open only to African American Studies minors. Students proposing internships must have an approved Interdisciplinary Studies proposal which includes the internship. Additionally, they must have completed the application required by the campus Office of Internships. Credits: 0 - 6

INDS492 American Indian Studies Internship Frequency: D Open only to American Indian Studies minors. Students proposing internships must have an approved Interdisciplinary Studies proposal which includes the internship. Additionally, they must have completed the application required by the campus Office of Internships. Credits: 0 - 6

INDS493 Latino Studies Internship Frequency: D Open only to Latino Studies minors. Students proposing internships must have an approved Interdisciplinary Studies proposal which includes the internship. Additionally, they must have completed the application required by the campus Office of Internships. credits: 0 - 6

INDS589 Special Topics Frequency: B Topics of special or current interest offered periodically and taught from an interdisciplinary perspective. Credits: 1-3

INDS590 Independent Study Frequency: A Independent study of interdisciplinary topics not covered in regular graduate course offerings and pertinent to the student's program of study. Credits: 3

INDS690-691 Research Frequency: A Credits: 1-3

International Education (INED)

INED400 Study Abroad Frequency: A Opportunities for study abroad as arranged through the Office of International Education. Credits: 3-16

INED450 International Internship Frequency: A Opportunities for international internships as arranged through the Office of International Education. Credits: 1-15

Italian (ITAL)

ITAL115 Elementary Italian I Frequency: A For students with no previous preparation. Study of fundamental speech patterns. Initial stress on listening comprehension and oral ability. Progressively greater emphasis on reading and writing skills. Credits: 3

ITAL116 Elementary Italian II Frequency: A Continuation of ITAL 115. Further introduction to fundamental speech patterns. For students with one semester of college-level Italian or equivalent. Stress on listening comprehension, oral ability, reading and writing skills. Prerequisite Courses: ITAL 115 Credits: 3

Journalism (JOUR)

JOUR270 Introduction to Print and Broadcast Journalism Frequency: A The basic course in journalism focuses on how the media function in our society and provides practice in writing for such media. Major ethical and legal issues are introduced and discussed. Credits: 3

JOUR366 Opinion in Journalism Frequency: B Introduction to techniques appropriate to presentation of opinion and critical commentary in print, broadcast and electronic media: editorials, political columns, critical reviews of books, films, theatre, art, etc. Prerequisite Courses: JOUR 270, COMM 102 or MEDA 101 Credits: 3

JOUR370 Reporting and Newspaper Writing I Frequency: B Emphasizes reporting skills and gathering of information for breaking/hard/spot news stories through interviews and public record research. Emphasizes the development of writing for print, for the ear, and to the image. Small group editing and discussion of legal and ethical issues which bear on print, broadcast and electronic media are also emphasized. Prerequisite Courses: JOUR 270 Credits: 3

JOUR371 Reporting and Newspaper Writing II Frequency: B Reviews and expands reporting and in-depth interviewing skills, including study of the differences between interviewing for print and broadcast media. Focuses on peer editing and critique, revision, and a continued examination of ethical and legal questions in addition to the role of print, broadcast and electronic media in society. Prerequisite Courses: JOUR 370 Credits: 3 JOUR372 Reporting and Newswriting III Frequency: D Students will learn about the special problems and skills involved in reporting within the television and radio milieus. They will study the organization and process that are typical of a variety of market sizes; develop their own approaches to the special ethical and legal problems presented by these media; understand and learn how to cope with the special team environment and the technological preconditions presented, especially by video. They will discuss ways of preserving journalistic integrity within the pressures of deadlines, corporate profitability and technologically complex processes. They will study the special news gathering techniques involved with vocalization, pictorial representation and the presence of intrusive technological tools, and will study the writing techniques of voicing to the ear and writing to image. Prerequisite Courses: JOUR 371 Credits: 3

JOUR465 Internship Frequency: A Journalism internships. Interns work four hours per week for 1 credit hour. Permission of journalism coordinator required. Prerequisite Course: JOUR 370 Credits: 1-3

JOUR470-471 Journalism Seminar

Frequency: A For editors and assistant editors on The Leader. Students enrolled must be approved as assistant editors by an appropriate section editor; editors must apply for and be elected to the position by the editorial board. Students not only fulfill all duties of their positions but also complete a project of lasting value to them and the newspaper (decided on in consultation with advisor and editorial board). Permission of journalism coordinator required. Prerequisite Courses: JOUR 371 Credits: 3

JOUR490 Independent Study Frequency: A Independent Study of issues in journalism. Periodic meetings with instructor and writing assignments to be determined by student and instructor. Permission of journalism coordinator required. Prerequisite Courses: JOUR 366 or JOUR 370 Credits: 13

Foreign Languages (LANG)

LANG322 French Civilization/Culture Frequency: B Introduction to the political development of France and issues of community, family, gender and class in determining French national identity. Topics include Gothic cathedrals, Joan of Arc, the chateaux of the Loire, the Sun King and Versailles, Le Louvre, the age of reason, Napoleon and the establishment of the Republic. Credits: 3

LANG323 Germany Since 1918 Frequency: D Cultural aspects of the Weimar Republic, the Third Reich, and contemporary Germany. Guest lecturers, readings, and films in English. Credits: 3

LANG327 Sex/Magic in Latin American Literature Frequency: D (Spanish originals). A study of 20th century Spanish-American thought and culture through reading and discussing works of fiction and popular song lyrics, and interviews with writers. Some of the central issues will involve attitudes toward sex and sexual roles as well as the peculiarly Latin American brand of literature known as Magical Realism. Credits: 3

LANG328 Don Juan and Don Quixote Frequency: D

(Spanish majors will work with original texts). A defining characteristic of Spanish literature is the creation of supremely powerful personalities. The purpose of the course is to introduce the student to the development of two of these archetypes: Don Juan and Don Quixote. Discussion of the chronological development of these figures from the earliest representation to the present day, and discussion of those aspects which mark the works to be studied as products of particular cultures at specific historical moments. Credits: 3

LANG371 Canadian Writers

francophone. Although this is primarily a literature course,

considerable attention will be

LANG378 Canada Today

LANG385 German Film

This course will address

such as Fritz Lang, Leni

contemporary civilization in

Germany in that it will examine its

artistic expression in drama and

film. The works of major directors

Riefenstahl, Werner Herzog, and

Schlondoroff and vonTrotta will be

shown to contrast their work and

A comprehensive introduction to

aspects of Spanish civilization and

culture: geography, history, social

customs, political movements,

literature and art. In English.

LANG398 The Holocaust in

An interdisciplinary attempt to

make sense of the Holocaust

philosophical, religious, historical,

Special areas in foreign languages

An evaluation of the contributions

institutions which form the basis of Western philosophic tradition. Credits: 3

of French women writers to the

social, economic and political

through a variety of literary,

and allegorical formulations.

LANG400 Special Topics in

and literature not covered by

LANG405 French Women

Foreign Language

Frequency: D

regular courses.

Credits: 1-3

Frequency: B

Writers

Wim Wenders will be examined.

Short examples of Fassbinder,

Frequency: B A look at the history, politics,

culture, and geography of Canada and an analysis of contemporary

issues affecting Canada and its

devoted to Canadian history and

politics, and to the notion of the

Canada's most significant writers,

Frequency: D An introduction to some of

both anglophone and

Canadian identity.

Credits: 3

neighbors.

Credits: 3

style. Credits: 3

LANG388 Spanish

Civilization/Culture

Frequency: D

Credits: 3

Literature

Credits: 3

Frequency: D

Frequency: D

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LANG406 Women in French Literature Frequency: B An examination of how texts about women written by Francophone males have through history described women, defined their lives and destinies in keeping with the needs and requirements of these writers. Credits: 3

LANG410 Directed Study Frequency: D Individual supervised study of a particular area or topic in any of the department's language or literature offerings. Periodic meetings with instructor; writing of a substantial paper. Credits: 1-3

LANG500 Special Topics in Foreign Language Frequency: D Special area in any of the foreign languages and literatures not covered by regular courses. Credits: 1-3

LANG510 Directed Study Frequency: D Individual supervised study of a particular area or topic in any of the department's language or literature offerings. Periodic meetings with instructor; writing a substantial paper. Credits: 1-3

Liberal Arts (LART)

LART150 General Studies Freshman Seminar Frequency: B Entering freshmen with no major can take advantage of the opportunity to connect to the college, community, and their own learning styles in this 2 credit seminar course. Students will journal, discuss, and read; meet with representatives from many on-campus agencies and get a chance to analyze their own particular ways of learning. Emphasis will be on sound decision-making and planning. Credits: 2

LART151 Liberal Arts Freshmen Explore for Major Frequency: B Graded on an SRI basis, Liberal Arts freshmen who have not yet chosen a major will be required to attend panel discussions twice a week. Faculty, chairpersons, deans and students from departments and divisions across campus will be presenting information and responding to questions. They will discuss the variety of majors, the requirements for each and the career paths students have taken with these majors. Discussions begun in the fall with respect to the Discover Program and other avenues for exploring possible directions will also continue. These 1 credit Liberal Arts Convocations will take place during the first 10 weeks of the semester. Credits: 1

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Mathematics Education (MAED)

MAED301 Mathematics for School Teachers I Frequency: A Meaning, development, and communication of number ideas and logical structure of base ten number systems (as well as other bases): the concepts and procedures related to the basic algorithms of arithmetic; problem solving and mathematical modeling within the whole number system and positive rational number system. Course open only to students seeking certification to teach at the early childhood, childhood, or middle childhood level. Sophomore standing required. Credits: 3

MAED302 Mathematics for School Teachers II Frequency: A Meaning, development and communication in the real number system; problem solving and mathematical modeling within this system; including proportional reasoning; algebra, statistics, probability, properties of geometric shapes and measurement in 2 and 3-dimensions. Course open only to students who are seeking certification to teach at the early childhood, childhood or middle childhood level. Prerequisite Course: MAED 301 Credits: 3

MAED303 Mathematics for School Teachers IIJ Frequency: A Further development of geometry concepts: including triangle congruence and similarity; coordinate geometry and transformations; advanced problem solving using algebraic models, geometric models and other modeling techniques; emphasis on the framework provided by the National Council of Teachers of Mathematics for elementary/middle school mathematics; investigation of concepts teachers must know in order to build and refine mathematical ideas and connections in K-8. Prerequisite Course: MAED 302 Credits: 3

MAED310 Reading and Writing Mathematics Frequency: A This course will use the vehicle of problem solving to help students

develop their abilities in reading and writing mathematics, It will also focus on how reading and writing exercises can be used to enhance the teaching and learning of mathematics, and how reading and writing mathematics can be used to enhance the teaching of literacy. This course will include discussions of reading mathematics, writing mathematics, oral presentation of mathematics, and problem solving techniques. "Communication" is one of the standards from Principles and Standards for School Mathematics of the National Council of Teachers of Mathematics. Students will read and discuss material from the NCTM and other sources related to this standard. Prerequisite Courses: EDU 276 and MATH 210 Credits: 3

MAED325 Software for Mathematics Education Frequency: A Introduction to software packages appropriate for use by mathematics educators. Topics selected from, but not limited to web page design, programming, scientific word processors, spreadsheet applications, computer algebra systems, and specialized packages such as Geometer's Sketchpad. Prerequisite Courses: MATH 121 or 123 Credits: 3

MAED500 Independent Study Frequency: D Independent study of a set of related topics agreed to by the student and the instructor. Permission of instructor required. Credits: 3

MAED509 Technology in Mathematics Education Frequency: D A survey of software or technology used in teaching mathematics and of current issues in the use of technology in the teaching and learning of mathematics. Credits: 3

MAED512 Design and Evaluation of Mathematics Curricula Frequency: D Study of the design and evaluation of various models of mathematics curricula including the latest NCTM materials. Credits: 3 MAED514 Instructional Methods in Mathematics

Frequency: D A critical study of the literature on current methods of teaching mathematics. Credits: 3 MAED518 History of Mathematics Education Frequency: D Overview of the development of mathematics education as a discipline, the major influence from other fields and society, trends in recent decades, and the impact on school mathematics. Credits: 3

MAED522 Differential Equations Frequency: D Introductory course with emphasis on applications of calculus. Topics include: first order equations, higher order linear equations, undetermined coefficients, variation of parameters, linear systems, bifurcation analysis, series solutions, Laplace transforms, numeric and qualitative techniques, mathematical modeling and applications, and computational technology. Additional topics selected from linear and nonlinear systems as time permits Prerequisites: MATH 122, 123, 223, 231 or permission from the instructor Credits: 3

MAED523 Real Analysis Frequency: D Topology of the real line, measure and integration on the real line, function spaces and their topologies. Prerequisite Courses: MATH 323 or equivalent Credits: 3 MAED524 Complex Analysis Frequency: D Geometric interpretation of the complex plane, analytic functions and power series representations, introduction to Riemann Surfaces, the Cauchy Integral Theorem and Integral Formula, calculation of integrals by residues, application to potential theory. Prerequisite Courses: MATH 323

Prerequisite Courses: MATH 323 or equivalent Credits: 3 MAED531 Rings and Fields Frequency: D

An introduction to rings and fields: rings; integral domains; fields; characteristic of a ring: subrings; ideals; factor rings; ring homomorphisms; polynomial rings; introduction to Galois theory as time permits. Prerequisite Courses: MATH 331 or 301 or equivalent Credits: 3 MAED532 Abstract Algebra with Applications Frequency: D

Frequency: D Study of selected applications of abstract algebra. Topics selected from: identification numbers, symmetry, applications to combinatorics, coding theory, cryptography. Prerequisite Courses: MATH 331 or 301 or equivalent Credits: 3 MAED535 Number Theory Frequency: D Topics selected from: congruence relations; arithmetic functions; primitive roots; quadratic reciprocity; sums of squares: continued fractions; Farey sequences; factoring and primality testing; analytic and additive number theory. Permission of instructor required. Credits: 3

MAED537 Combinatorics Frequency: D Addition, multiplication, and pigeonhole principles; permutations and combinations; principle of inclusion/exclusion; recurrence relations; generating functions; combinatorial algorithms and/or combinatorial designs as time permits. Permission of instructor required. Credits: 3

MAED540 Graph Theory Frequency: D Graph models; graph structure and representation; trees; connectivity; graph traversals; coloring graphs; other topics as time permits. Permission of instructor required. Credits: 3

MAED541 Euclidean Geometry Frequency: D Neutral geometry; Euclidean geometry; comparison of various models of Euclidean geometry, such as that of Hilbert and the SMSG; comparison of Euclidean geometry to various finite geometries and non-Euclidean geometries; geometry of circles and triangles; other topics such as analytic and transformational geometry as time permits. Permission of instructor required. Credits: 3

MAED543 Projective Geometry Frequency: D The real projective plane; duality; perspectivity; Desargues' theorem; projective transformations; finite projective planes; pure analytic geometry. Prerequisite Courses: MATH 341 or equivalent Credits: 3

MAED545 Geometric Topology Frequency: D Detailed study of topological spaces and their invariants. The emphasis will be on the geometric aspects of topology. Topics may include Sperner's lemma and Brouwer Fixed Point Theorem, classification of compact surfaces, applications to systems of differential equations. Prerequisite Courses: MATH 341 or equivalent Credits: 3 MAED551 Statistics Frequency: D Regression, hypothesis testing & confidence intervals in regression, Nonparametric statistics, chi-square tests, sampling, use of activities in probability and statistics Prerequisite Courses: STAT 350 or STAT 200 or equivalent Credits: 3 MAED581 History of

Mathematics Frequency: B A study of selected topics in the history of mathematics and their applications to teaching. Permission of instructor required. Credits: 3

MAED602 Mathematics Education Seminar Frequency: B Selected readings, discussions, and reports on current issues in mathematics education. Permission of instructor required. Credits: 3

MAED690 Graduate Project Frequency: B Students will be required to research a topic pertaining to mathematics education and apply it to their own classroom experiences if possible. This project will require a written proposal, a final report and an oral defense. Prerequisite: MATH 602 and permission of the department Credits: 3

Mathematics (MATH)

MATH100 Freshman Seminar Frequency: B This course seeks to help students utilize campus resources effectively, learn useful academic skills, especially those relevant to mathematics, develop a support network, become more self-aware, promote personal health and wellness, and appreciate diversity. The course will also give some emphasis to applications of calculus and to the communication of mathematics Co-requisite Course: MATH 122 Credits: 1

MATH104 Elementary Mathematical Models Frequency: B Sequences and difference equations; models of growth, including linear, quadratic, geometric, and logistic growth models; linear regression; other growth and regression models and an introduction to chaos as time permits. The course uses . elementary mathematical models as a vehicle for developing the students' algebraic, geometric, and problem-solving abilities. Prerequisite: NYS Regents Course II or equivalent. Credits: 3

MATH105 Survey of Precalculus Frequency: A This course is designed to prepare students to take Survey of Calculus (MATH 120) and emphasizes multi-step problem solving. Topics include algebraic, exponential and logarithmic functions and their graphs, transformations and combinations of functions, a review of algebra and geometry, solving inequalities and systems of equations, and computational technology. (This course is not open to students who have completed MATH 106 with a grade of C- or better or who have completed a calculus course.) Prerequisites: NYS Regents Course II or NYS Regents Math A Credits: 3

MATH106 University Precalculus Frequency: A This course is designed to prepare students to take University Calculus (MATH 122) and emphasizes multi-step problem solving. Topics include a review of algebra, solving inequalities, alebraic and transcendentat functions, trigonometry, analytic geometry, applications and computational technology. (Not open to students who have completed a calculus course with a grade of C- or better.) Prerequisites: NYS Regents Course III or NYS Regents Math B Credits: 3 MATH108 Mathematics for the Management, Life, and Social Sciences Frequency: B Introduction to concepts in mathematics considered essential in business, biology, and the social and behavioral sciences. Topics are selected from linear models, matrices, linear programming, nonlinear models, probabilistic models. Includes applications to biology, business, economics and the mathematics of finance. Prerequisite Courses: MATH 104, NYS Regents Course III, or NYS Regents Math B Credits: 3

MATH110 Mathematics in Action Frequency: A Emphasizes the real-world significance of mathematics and the applications of several areas of mathematics. Some topics: design of street networks, planning and scheduling, weighted voting systems, fair division and apportionment, measuring populations and the universe, and statistics. Prerequisite Courses: MATH 104, NYS Regents Course III, or NYS Regents Math B Credits: 3

MATH117 Why Mathematics?

Introduces the liberal arts student

to the nature of mathematics and

what mathematicians can do. An

on attaining computational skills.

Ideas from algebra, geometry,

number theory, set theory and

topology are presented with emphasis on their history and

relevance to other disciplines.

or NYS Regents Course III, or

NYS Regents Math B

Credits: 3

122

Credits: 3

Frequency: A

Frequency: A

Prerequisite Courses: MATH 104

MATH120 Survey of Calculus I

Introduction to differential calculus

with applications to the behavioral,

management and social sciences.

Not open to students majoring in

Chemistry. Credit will not be given for both MATH 120 and MATH

Prerequisite Courses: MATH 105

MATH121 Survey of Calculus II

Introduction to integral calculus for

functions of a single variable and

differentiation, and applications of

students majoring in Mathematics,

Physics or Chemistry. Credit will

not be given for both MATH 121

Prerequisite Courses: MATH 120

MATH122 University Calculus I

Frequency: A Functions, inverse functions,

limits, continuity, derivatives,

antiderivatives: applications to

maxima-minima, related rates;

computational technology. Credit

Prerequisite Courses: MATH 106

MATH123 University Calculus II

Definite integrals, the fundamental

theorem of calculus, techniques of

sciences and geometry, improper

sequences and series. Credit will

integrals, differential equations,

not be given for both MATH 121

Prerequisite Courses: MATH 122

integration, applications of the

definite integral in the physical

will not be given for both MATH

rectilinear motion, graphing,

indeterminate forms,

120 and MATH 122

Credits: 4

Frequency: A

and MATH 123.

Credits: 4

or four years of college preparatory mathematics

to the calculus of functions of

techniques of integration and

behavioral, management and

social sciences. Not open to

these techniques to the

and MATH 123

credits: 3

several variables. Included are

Mathematics, Physics or

or four years of college preparatory mathematics.

for functions of a single variable,

emphasis on presenting ideas and

mathematical concepts rather than

Frequency: A

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MATH124 Survey of Calculus III Frequency: B Calculus of the trigonometric and inverse trigonometric functions; linear approximations and differentials: L'Hospital's rule: additional techniques and applications of integration; volumes; techniques of integration: arc length; surface area; infinite series: key examples from the physical sciences. Not open to students who have completed MATH 123 or equivalent. Prerequisite Courses: MATH 121 Credits: 3

MATH190 Honors Problem Solving

Frequency: B Designed to engage promising mathematics students in solving problems related to calculus and its applications. Students are partitioned into small groups and given interesting and nontrivial problems to work on together. Students present solutions in class and are required to record their work in notebooks. Co-requisite Courses: MATH 123 Credits: 2

MATH207 Math Tutoring in the Community

Frequency: A Description: This course is designed for students working as Math and Science Partnership mathematics tutors in the local community. Students eligible for the work-study program or working as volunteers, tutor in area schools or after-school programs. The course examines issues such as getting children interested in mathematics, how to explain various topics, working with groups vs. individuals, and cultural differences. Problems encountered in the tutoring experience will be discussed. Students must apply through the Mathematics and Computer Science department. Credits: I

MATH210 Discrete Mathematics Frequency: A Careful study of the foundations of mathematics needed for study of mathematics at the advanced undergraduate level. Topics from logic, set theory, elementary number theory, mathematical induction, functions, relations, basic combinatorics. Credit will not be given for both MATH 210 and CSIT 241. Prerequisite Courses: MATH 121 or MATH 123 Credits: 4

MATH223 University Calculus III Frequency: A Parametric equations, polar, cylindrical, and spherical coordinates, vector algebra, equations of lines, planes, quadratic surfaces, vector functions and space curves, calculus of functions of several variables including multiple integration; applications to the physical sciences and geometry; computational technology Prerequisite Courses: MATH 123 or MATH 124 Credits: 4

MATH224 Differential Equations Frequency: B Introductory course with emphasis on methods of solution of differential equations and applications. Topics include: first order equations, higher order linear differential equations, undetermined coefficients, variation of parameters, systems of differential equations, qualitative and numerical analyses of solutions, and power series solutions and Laplace transforms as time permits. Prerequisite Courses: MATH 123 Credits: 3

MATH231 Linear Algebra Frequency: A Thorough treatment of linear algebraic systems. Matrix algebra; determinants; vector spaces; linear independence; basis and dimension; inner product spaces; least squares approximation; eigenvalues and eigenvectors; diagonalization. Selected applications to physics, economics, geometry, statistics, and differential equations. Prerequisite Courses: MATH 121 or MATH 123; MATH 210 recommended Credits: 4

MATH290 Sophomore Honors Mathematics Frequency: B Advanced topics selected from calculus, discrete mathematics and linear algebra, with emphasis on reading and writing of mathematical proofs. Co-requisite course: MATH 231 Prerequisite Courses: MATH 210 Credits: 3 MATH307 Math and Music Frequency: C Explores how mathematical ideas have been used to understand and create music, and how musical ideas have influenced math and science. Topics selected from the history of tuning and alternative tuning, the Music of the Spheres doctrine, historical theories of consonance, contributions to music theory by mathematicians, mathematical analysis of sound, philosophical and cognitive connections between math and music, and math in music composition and instrument design. An ability to read music is recommended. This course is not intended for math majors. Junior or Senior standing required. Credits: 3

MATH315 Theory of Equations Frequency: D Study of the theory of polynomial equations. Rational, real and complex roots of algebraic equations, the Remainder and Factor theorems, Fundamental Theorem of Algebra, solutions of cubic and bi-quadratic equations and approximation of roots. Prerequisite Courses: MATH 210 Credits: 3

MATH322 Partial Differential Equations Frequency: C A first course with emphasis on boundary value problems encountered in mathematical physics. Fourier series; separation of variables; D'Alembett's solution; the heat, wave and potential equations. Additional topics such as Sturm-Liouville problems or Laplace transforms as time permits. Prerequisite Courses: MATH 224 Credits: 3

MATH323 Intermediate Real Analysis Frequency: B Careful presentation of the ideas of calculus that are developed intuitively in the usual freshman-sophomore calculus courses. Techniques of proof in analysis; countable sets and cardinality; the real line as a complete ordered field: some topology of the real line; sequences and their limits; continuous functions and their properties; other topics as time permits. Prerequisite Courses: MATH 210 and MATH 223 Credits: 3 MATH325 Numerical Analysis

Frequency: C Introductory course in numerical methods for digital computers. Floating point arithmetic, errors, error analysis. Roots of equations, systems of equations. Numerical differentiation and integration. Interpolation and least squares approximations. Prerequisite Courses: MATH 123 and CSIT 106 or CSIT 121 Credits: 3

MATH329 Mathematical Modeling Frequency: B An introduction to the development of mathematical models to solve various applied and industrial problems. Topics will include one and multivariable optimization, Lagrange multipliers, sensitivity analysis in optimization models, analysis and simulation of discrete and continuous dynamic models. Prerequisite Courses: MATH 223 and MATH 231 Credits: 3 MATH331 Abstract Algebra I Frequency: B Study of algebraic structures, such as groups, rings, integral domains, and fields. Basic homomorphism theorems for groups and rings are presented. Prerequisite Courses: MATH 210 and MATH 231 Credits: 3 MATH332 Abstract Algebra II Frequency: C Continuation of the study of groups, rings, and fields, with applications to geometric symmetry, crystallography, switching networks, and error-correcting codes. Prerequisite Courses: MATH 331 Credits: 3 MATH335 Number Theory Frequency: C Study of integers and their properties; divisibility; primes; congruences; multiplicative functions; quadratic residues; quadratic reciprocity; Diophantine equations Prerequisite Courses: MATH 210 and MATH 231 Credits: 3 MATH337 Combinatorics Frequency: C The addition, multiplication and pigeonhole principles. Permutations and combinations, partitions and distributions: the binomial and multinomial theorems. Generating functions; recurrence relations; principle of inclusion-exclusion; combinatorial algorithms or designs as time permits. Prerequisite Courses: MATH 210 and MATH 231 Credits: 3 MATH341 Geometry Frequency: B Study of Euclidean geometry from both a synthetic and analytic viewpoint. Axioms for geometries; transformations; triangles and other basic shapes; constructions. Some consideration given to finite.

neutral, and non-Euclidean

Prerequisite Courses: MATH 21 0

aeometries.

Credits: 3

MATH359 Probability Models in Operations Research Frequency: C Topics chosen from stochastic processes; birth-death processes; queueing theory; inventory theory; reliability; decision analysis; simulation. Prerequisite Courses: MATH 231 and STAT 350 Credits: 3

MATH365 Financial Mathematics Frequency: C A rigorous treatment of the mathematical theory associated with financial transactions, including simple and compound interest, annuities, bonds, yield rates, amortization schedules and sinking funds, option pricing, capital asset pricing model, and portfolio risk analysis. Prerequisite Courses: MATH 223, MATH 224, and STAT 350 Credits: 3

MATH375 Deterministic Models in Operations Research Frequency: C Topics chosen from linear programming and applications; network analysis; game theory; dynamic, integer and nonlinear programming. Prerequisite Courses: MATH 231 Credits: 3 MATH381 History of

Mathematics Frequency: B Chronological study of the development of mathematics. Emphasis on the solution of selected mathematical problems associated with historical periods. Prerequisite Courses: MATH 210 Credits: 3

MATH390 Honors Special Topics Frequency: B The course will focus on a topic reflecting the interest of the instructor. Examples include combinatorial topology, nonlinear dynamic systems, graph theory, complex analysis, and the theory of partitions. Prerequisite Course: MATH 290 Credits: 2 MATH400 Independent Study Frequency: A Independent study of a selected list of registre course were

Independent study of a selected list of readings approved by a faculty advisor. Permission of department required. Credits: 1-3

MATH405 Senior Seminar Frequency: A Studies from selected areas of mathematics. Written reports and formal presentations will be required. Prerequisites: Senior standing or permission of instructor Credits: I

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MATH408 Special Topics Seminar Frequency: D Selected readings, discussions, and reports on topics in mathematics. Permission of department required. Credits: 1-3

MATH420 Advanced Calculus Frequency: B Vector calculus; Jacobian matrices and their determinants; differentiation and integration of differential forms and applications to physics; generalizations of the fundamental theorem of calculus, including Green's theorem, the divergence theorem, Gauss' theorem, and Stokes' theorem; potential theory. Prerequisite Courses: MATH 231 and MATH 323 Credits: 3

MATH423 Topics in Analysis Frequency: D Topics vary, depending on the instructor, but may include measure and integration, basic functional analysis, complex analysis, residue theory, and special functions. Prerequisite Courses: MATH 231 and MATH 323 Credits: 3

MATH440 Graph Theory Frequency: D Introduction to graph theory. Topics chosen from: connectivity, trees, eulerian and hamiltonian graphs, matchings, factorizations, and colorings. Applications chosen from: the shortest path problem, communication networks, the traveling salesman problem, the optimal assignment problem, and scheduling algorithms. Prerequisite Courses: MATH 210 and MATH 231 Credits: 3

MATH490 Honors Thesis Frequency: B Student will conduct research under the supervision of a faculty member and submit a thesis to the Honors Program Subcommittee. Credits: 3

(MEDA) Media Arts MEDA100 Media Arts Seminar Frequency: B An introduction to interdisciplinary learning with a focus on the elements of desktop multimedia design, production and critique. Media Arts faculty, as well as guest lecturers from on and off campus will discuss their areas of expertise. An overview of related campus resources will be presented. Credits: 3

MEDA101 Media Literacy Frequency: B The course facilitates baseline literacy with regard to our increasingly mediated society. Explores the many ways people "consume" the media. Discussion of the devices and strategies used by media makers to produce effective visual and aural messages across television, radio, film, graphic design, the Web, photography, typography, informational graphics and other forms of mediated and interactive communication Credits: 3

MEDA102 Media Arts Production I Frequency: B Basic introductory course to computer applications used in the creation of computerized multimedia. Students will gain introductory skills in navigating through computer programs and producing computer-mediated projects. The focus of this course is in print and presentation applications, including desktop publishing, image editing and computer presentation software. Students will also gain beginning skills in designing for the computer.

Prerequisite: Media Arts majors only. Credits: 3

MEDA105 Computers and Society

Frequency: B 2 Introduction to the role of modern microcomputers in personal, entertainment and corporate communications. Discussion of the role computers have played in social change and how this is reflected in popular culture. Also addresses the use of computers in the creative environment including digital audio, video, multimedia production, the internet and the world-wide web. Credits: 3 MEDA120 Multimedia Applications Frequency: D The course introduces students to the core applications used in creating multimedia content. The applications range from Microsoft applications to the Adobe suite of programs for video and graphics production. Alternative software will also be explored as the course will attempt to remain current with market and industry standards for personal and business use. Credits: 3

MEDA152 Media Production II Frequency: B Course is an introduction to applications used to present content dynamically. The course will present an overview of production in motion graphics, video, audio and web publication using HTML. Class is geared to give the student a comprehensive understanding of the convergence of visual and audio production through digital media. Prerequisite Courses: MEDA 102 and MEDA 105 Credits: 3

MEDA200 Systems/Languages Protocols Frequency: B

The course is designed to look at some of the more common computer systems, languages and protocols used by today's personal computer systems. Students will learn the fundamentals of operating systems, scripting languages, protocols which allow computers to talk to each other, and the various terms involved with computer hardware and software issues. Credits: 3

MEDA215 Interactive Design I Frequency: B Course will introduce students to the production and presentation of interactive multi-media content Class will take into consideration a wide range of elements both in traditional design; Le. color, line, type and spacing as well as design issues of new media such as user recognition, successful navigation, use of animation and kinetic typography to dynamically present content both on-line and on CD-ROM. Prerequisite Courses: MEDA 101 and MEDA 102 and MEDA 105 and MEDA 152

Credits: 3

MEDA220 Sight, Sound and Motion

Frequency: B The course continues the work in understanding the aesthetic underpinnings of concepts in sight, sound and motion including the perceptual process at work as audiences interact with mediated messages. The course is especially attenuated towards extending traditional understandings of new media including contemporary applications in creative computing. Credits: 3

MEDA240 Computers in Corporate Communications Frequency: D Introduction to the role of modern micro-computers in personal, entertainment, and corporate communications. Topics range from differences in popular computer platforms to the use of specific types of hardware and software used in electronic communication. Addresses the use of computers in the creative environment including digital audio, video, multimedia production, the Internet, and the World Wide Web. Credits: 3

MEDA250 Web Page Design Frequency: D The course is designed to introduce to the student the basic principles of designing web pages for the World Wide Web. Mixing traditional design concepts with web-based tools, students will learn how to code pages for the web across platforms. Students will also gain practice in the use of HTML, Java and CGI/Perl scripting. Credits: 3

MEDA260 Drawing for New Media

Frequency: D The class is offered as an introduction to electronic equivalents of traditional drawing and painting techniques. Students will become proficient in software applications such as Painter and Photoshop, and learn to capture drawings/paintings created with traditional studio techniques using scanners, digital cameras, film recorder and direct input (electronic drawing tablet). The course also recognizes that good technology will not save a bad idea. Consequently, students will use drawing to stimulate visual thinking that discovers, clarifies, creatively amplifies and manipulates the development of ideas and concepts. Prerequisite Courses: ART 151 Credits: 3

MEDA265 Interactive Design II Frequency: B Interactive Design II will expand upon the tools gained in Interactive Design I, but with a focus in programming for multimedia applications. Students will gain an applied knowledge of various multimedia languages. Course interweaves programming and design to give Media Arts students a well-rounded understanding of what goes into rich media production. Prerequisite Courses: MEDA 215 Credits: 3

MEDA300 Video Production for Media Arts

Frequency: D An introduction to the concepts and tools involved in digital video production. This includes analog to digital conversion, production related aspects of compression and storage, and computer-based video editing. Prerequisite Courses: MEDA 120 Credits: 3

MEDA301 Media Performance I Frequency: B Course is designed to introduce students to the elements of live performance within a multimedia environment. Elements of live artistic performance (such as music, theatre, poetry, etc.) will be combined with computer-mediated elements to achieve a new style of interactive performance. Prerequisite Courses: MEDA 215 and MEDA 152 Credits: 3

MEDA310 Media Criticism Frequency: B

The study of selected theories and methods of criticism relevant to the evaluation of mediated message genres from a communication perspective. Emphasis is placed on applying critical perspectives to the criticism of film and electronic media. Credits: 3

MEDA311 Video for Media Arts Frequency: D

Students will learn about concepts and techniques for production and editing of video which is to be used on the Web or on CD-ROM. At the current state of the technology, this is an area vefy distinct from older forms of video production and requires a different aesthetic and different production and post production skills. The course will focus on those differences and the development of those aesthetic concepts and skills.

Credits: 3

MEDA320 Audio and Desktop Multimedia Frequency: D A course designed for students with a strong interest and background in composition multimedia, audio and MIDI. A project-oriented course focusing on audio design, analysis, and integration as it applies to multimedia authoring, motion video, and web content creation. Prerequisite Courses: MEDA 120 Credits: 3 MEDA330 Special Topics in Media Arts Frequency: D Selected areas of Media Arts supplementing the regular program offerings. Credits: 1-3 MEDA350 Media Performance II Frequency: B Course is a continuation of Media Performance I and is designed to develop and create a major piece of interactive performance. Students will further refine and develop their production skills in interactive performance by developing new performance works or adapting other styles of performance (such as dance or theatre) to new media production. Prerequisite Courses: MEDA 301 Credits: 3 MEDA352 Media Production III Audio/Video Frequency: B Course is an advanced media production design course specializing in visual and audio production for new media. Students will work intensively to create projects which integrate the use of video, visual and audio components into final productions. Students will also learn the basics of camera and sound production skills for the field. Media Arts majors only. Prerequisite Courses: MEDA 265 Credits: 3 MEDA355 Interactive Design III Frequency: B The culmination of a series of three production classes in Interactive Design. Interactive Design III allows the students time to expand and solidify their knowledge of multimedia

production with an emphasis of delivery on the Web. This class will give the student the opportunity to create a dynamic portfolio web site and CD-ROM. Prerequisite Courses: MEDA 265 Credits: 3 MEDA360 Film and Special Effects Frequency: B Course examines both traditional and contemporary visual effects techniques including the creative and planning processes required for the execution of various types of effects, such as models and miniatures, mattes, composite effects, computer animation, and process projection. Course also provides a forum on the creative problem-solving and planning techniques used by effects makers, including a wide range of kinds of equipment and uses. Credits: 3

MEDA365 Sound Studio I Frequency: B This course introduces the student to the MIDI computer language and technology. Using MIDI, students will learn about electronic music production and how MIDI uses digital technology to create music. Credits: 3

MEDA370 Sound Studio II Frequency: B This studio course deals with the techniques of digital sound editing. Using appropriate software and hardware, students will engage in a number of projects designed to give them skills in digital sound editing and multitrack recording. Individual and group projects will be a part of the course work. Students will work with both music and sound effects to create multi-layered soundscapes. Prerequisite Course: MEDA 365 Credits: 3

MEDA499 Media Arts Internship Frequency: A This course is for students who wish to pursue internship opportunities with companies in the media production field. Students must coordinate their internships with the college's Internship Office. Credits: 1-15

MEDA410 Media Production IV Audio/Visual

Frequency: B Media Production IV allows Media Arts' students to solidify their knowledge of the production and presentation of audio/visual projects. Final projects will be presented as streaming media for on-line dissemination. Careful attention will be paid to the various processes of media production: conceptualization, production, post-production and the publicizing, and presentation of projects. Prerequisite Courses: MEDA 352 and MEDA 355 Credits: 3

MEDA440 Directed Study in Media Arts Frequency: A Directed work in specific areas of Media Arts, stressing depth of enquiry. Student meets with designated faculty member on a regular basis throughout the semester after filing an acceptable plan for the proposed project. Credits: 1-3

MEDA441 Media Arts Practicum Frequency: B The course is team-taught by instructors in the Media Arts program and is designed as a preparatory course for MEDA 495 Media Arts Capstone Practicum. Students will function in teams selected from the various tracks in Media Arts, with each team creating three multimedia projects for faculty and peer review. Projects could be defined by each team or assigned by faculty. The assigned projects will be designed to serve either the college community or be for a local charity, outside business or group, either commercial, artistic, or not-for-profit. Credits: 3

MEDA480 New Media Writing Frequency: B Course will study writing for media projects. Course will also provide insight into common constructs and approaches used in writing and producing media projects including audio, video, film, Web and CD-based interactive projects. Designed first to look at various structures and approaches, and second to move students from the idea phase of a project through writing, storyboarding and pre-production (everything ready to actually go into production). Projects may subsequently be produced in Media Arts Capstone. Credits: 3

MEDA490 Independent Study Media Arts Frequency: A Independent work in specific areas of Media Arts, stressing depth of inquiry and development of topic. Subject of study chosen in consultation with Media Arts faculty/advisor. Credits: 1-3

MEDA495 Capstone Practicum Frequency: B Students work in teams consisting of one student from each track in the Media Arts program. Each group will work on an assigned multimedia project, or after approval from a faculty mentor, work on a project identified by and agreed on by the group as a whole. Prerequisite Courses: MEDA 441 Credits: 6

Medical Technology (MEDT)

MEDT490 Clinical Internship Frequency: A A full year program of study conducted at a N.A.A.C.L.S.-approved hospital medical technology program, typically one of the five programs with which Fredonia is affiliated. Students attend lectures and perform lab tests under the instruction and supervision of certified lab scientists and physicians. Upon successful completion of the internship. students receive certification as a medical technologist, are eligible to take the board exams offered by the American Society of Clinical Pathologist and are eligible to work as medical technologists in a variety of laboratory settings. Credits: 15

MEDT491 Clinical Internship Frequency: A A full year program of study conducted at a N.A.A.C.L.S.-approved hospital medical technology program, typically one of the five programs with which Fredonia is affiliated. Students attend lectures and perform lab tests under the instruction and supervision of certified lab scientists and physicians. Upon successful completion of the internship, students receive certification as a medical technologist, are eligible to take the board exams offered by the American Society of Clinical Pathologist and are eligible to work as medical technologists in a variety of laboratory settings. Credits: 15

Music Education (MUED)

MUED128 Secondary Chamber Ensemble

Frequency: A For students who would like to achieve some proficiency on an instrument besides their major instrument. Students will participate in chamber ensembles, assigned by instructor, in which they will learn to coach ensembles, as well as perform at a higher level on their secondary instrument. Elective course for any Music Education major. Demonstrated playing proficiency on selected instrument through NYSSMA Level II. Credits: 1

MUED150 Introduction to Public School Music Frequency: D The preliminary course for the Foundations of Music Education sequence combines an introduction to and exploration of the purposes and premises of music education. Class sessions seek to broaden students' perspectives of the profession and of the potential for a rewarding career in music education. Credits: 0

MUED161 Beginning Trumpet Frequency: A Group applied instruction on the trumpet designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass or woodwind instrument in its place. Credits: I

MUED162 Beginning Trombone Frequency: A

Group applied instruction on the trombone designed to develop a plaving competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass or woodwind instrument in its place. Credits: 1

MUED163 Beginning French Horn

Frequency: A Group applied instruction on the French horn designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass or woodwind instrument in its place. Credits: 1

MUED164 Beginning Tuba/Euphonium Frequency: A Group applied instruction on the tuba/euphonium designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass or woodwind instrument in its place. Credits: 1

MUED171 Beginning Clarinet

Group applied instruction on the

playing competence sufficient to

teach beginning students through

course for Music Education majors

with an instrumental concentration.

playing competence may examine

woodwind instrument in its place.

Students who already possess

out of the requirement and

substitute another brass or

MUED172 Beginning Flute

Frequency: A Group applied instruction on the

competence sufficient to teach

Students who already possess

out of the requirement and

substitute another brass or

MUED173 Beginning Oboe

oboe designed to develop a

NYSSMA Level II. Required

Frequency: A Group applied instruction on the

playing competence sufficient to teach beginning students through

course for Music Education majors

with an instrumental concentration.

playing competence may examine

woodwind instrument in its place.

MUED174 Beginning Bassoon

Group applied instruction on the

bassoon designed to develop a

playing competence sufficient to

NYSSMA Level II. Required

teach beginning students through

course for Music Education majors

with an instrumental concentration.

playing competence may examine

woodwind instrument in its place.

MUED175 Beginning Saxophone

Frequency: A Group applied instruction on the

saxophone designed to develop a

playing competence sufficient to

teach beginning students through NYSSMA Level II. Required

course for Music Education majors

with an instrumental concentration.

playing competence may examine out of the requirement and

woodwind instrument in its place.

Students who already possess

substitute another brass or

Students who already possess

out of the requirement and

substitute another brass or

Students who already possess

out of the requirement and

substitute another brass or

beginning students through

NYSSMA Level II. Required

flute designed to develop a playing

course for Music Education majors

with an instrumental concentration.

playing competence may examine

woodwind instrument in its place.

clarinet designed to develop a

NYSSMA Level II. Required

Frequency: A

Credits: 1

Credits: 1

Credits: I

Credits: 1

Credits: I

Frequency: A

MUED185 Beginning Violin/Viola Frequency: A Group applied instruction on the violin/viola designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another string instrument in its place. Credits: 1

MUED186 Beginning Cello Frequency: A Group applied cello designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another string instrument in its place. Credits: I

MUED187 Beginning String Bass

Frequency: A Group applied string bass designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another string instrument in its place. Credits: 1

MUED203 Intermediate Voice Class

Frequency: B Applied group instruction in voice. Emphasis on development of an individual's performance ability. Prerequisite Courses: MUS 113 Credits: 1.5

MUED204 Advanced Voice Class Frequency: B Concentration on methods of developing and building singing voices. Student further develops performing ability and enlarges his/her repertoire. Prerequisite Courses: MUED 203 Credits: 1.5

MUED210 Guitar Class Frequency: A Designed to enable students to accompany themselves and to lead others in the singing of simple folk and popular songs. Includes use of I, IV, V7 chords in the keys of G, C, D, E; simple strumming and finger picking; and single line melodies. Credits: I

153

MUED211 Guitar Class Frequency: A Continuation of ME 210. Includes I, IV, V7 chords in the keys of A, F, B; secondary dominants; more advanced accompaniment patterns. Prerequisite Courses: MUED 210 Credits: 1

MUED221 Percussion Class Frequency: A Group applied instruction and pedagogical approaches on percussion designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level II. Required course for Music Education majors with an instrumental concentration. Students who already possess playing and teaching competence may examine out of the requirement and substitute another percussion course in its place Credits: 2

MUED222 Advanced Percussion Frequency: A Group applied instruction on cymbals, drum set, and field drums and accessories. Designed to develop a playing competence sufficient to teach advanced percussion to public school students. Demonstrated playing proficiency on basic percussion and MUED 221. Credits: 1

MUED250 Foundations of Music Education I -CAW Frequency: B

Emphasizes growth characteristics typical of public school students K-6 with special regard for their ability to process and respond to and with music: perceptual, psychomotor, and cognitive abilities; affectivity; brain development and function; creativity. Students are expected to develop a knowledge base sufficient to demonstrate competence in working effectively with students in music classes at the elementary level of public school. Child Abuse Workshop training will be conducted. Co-requisite Courses: MUED 255 Credits: 2

MUED251 Foundations of Music Education II

Frequency: B For Music Education students to develop an understanding of basic principles of educational psychology and educational sociology, with specific application to teaching of music to adolescents in the public schools. The course will cover theories, methods, principles and current issues within educational psychology and sociology. Included will be a seminar in alcohol, tobacco and drug abuse. Co-requisite Courses: MUED 256 Credits: 2 MUED255 Foundations I Practicum - Elementary Frequency: A Students act as music teachers or teacher aides for approximately 40 contact hours. This requirement may be completed during the January recess, in May/June after the student has taken MUED 250 or by several other alternatives approved by the Area Chair for Music Education/Music Therapy. S/U Grade. Credits: 0

MUED256 Foundations II Practicum - Middle School Frequency: A Students act as music teachers or teacher aides for approximately 40 contact hours. This requirement may be completed during the January recess, in May/June after the student has taken MUED 250 or by several other alternatives approved by the Area Chair for Music Education/VMusic Therapy. S/U Grade. Credits: 0

MUED260 Brass Pedagogy Frequency: A Covers instructional materials and pedagogical methods common to beginning instruction in public schools on brass instruments. Student must be enrolled simultaneously in one or more brass instrument playing classes, or should already have completed the competency requirements for trumpet and trombone. Credits: 1

MUED261 Advanced Trumpet Frequency: A

Group applied instruction and pedagogical approaches on the trumpet designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass instrument in its place. Demonstrated playing proficiency on a contrasting brass instrument through NYSSMA Level II. Credits: 1

MUED262 Advanced Trombone Frequency: A Group applied instruction and pedagogical approaches on the trombone designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass instrument in its place. Demonstrated playing proficiency on a contrasting brass instrument through NYSSMA Level II. Credits: 1

MUED263 Advanced French Horn

Frequency: A Group applied instruction and pedagogical approaches on the French horn designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass instrument in its place. Demonstrated playing proficiency on a contrasting brass instrument through NYSSMA Level II. Credits: 1

MUED264 Advanced Tuba/Euphonium Frequency: A Group applied instruction and pedagogical approaches on the tuba/euphonium designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another brass instrument in its place. Demonstrated playing proficiency on a contrasting brass instrument through NYSSMA Level II. Credits: 1

MUED271 Advanced Clarinet Frequency: A Group applied instruction and pedagogical approaches on the clarinet designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another woodwind instrument in its place. Demonstrated playing proficiency on a contrasting woodwind instrument through NYSSMA Level II.

Credits: 2

MUED272 Advanced Flute Frequency: A Group applied instrument and pedagogical approaches on the flute designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another woodwind instrument in its place. Demonstrated playing proficiency on a contrasting woodwind instrument through NYSSMA Level II. Credits: 2

MUED273 Advanced Oboe Frequency: A Group applied instruction and pedagogical approaches on the oboe designed to develop a plaving competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education maiors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another woodwind instrument in its place. Demonstrated playing proficiency on a contrasting woodwind instrument through NYSSMA l evel II Credits: 2

MUED274 Advanced Bassoon Frequency: A Group applied instruction and pedagogical approaches on the bassoon designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another woodwind instrument in its place. Demonstrated playing proficient on a contrasting woodwind instrument through NYSSMA Level II. Credits: 2

MUED275 Advanced Saxophone Frequency: A Group applied instruction and pedagogical approaches on the saxophone designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another woodwind instrument in its place. Demonstrated playing proficiency on a contrasting woodwind instrument through NYSSMA Level II. Credits: 2

MUED285 Advanced Violin/Viola Frequency: B Group applied instruction and pedagogical approaches on the violin or viola designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another advanced string instrument in its place. Demonstrated playing proficiency on cello/string bass through NYSSMA Level II. Credits: 2

MUED286 Advanced Cello/ String Bass Frequency: B Group applied instruction and pedagogical approaches on the cello or string bass designed to develop a playing competence sufficient to teach beginning students through NYSSMA Level IV. Required course for Music Education majors with an instrumental concentration. Students who already possess playing competence may examine out of the requirement and substitute another advanced string instrument in its place. Demonstrated playing proficiency on violidviola through NYSSMA Level II. Credits: 2

MUED291 Technology in Music I Frequency: A Overview of technology and its application to music composition, instruction, notation, performance, theory, and music education. Fundamentals of electronic music, MIDI, and computer usage. Prerequisite Courses: MUS 124 Credits: 1-3

MUED292 Technology in Music II

Frequency: B Overview of technology and its application to music composition, instruction, notation, performance, theory, and music education. Fundamentals of electronic music, MIDI, and computer usage. Prerequisite Courses: MUS 124 Credits: 1-3

MUED300 Foundations in Music Education III Frequency: B

Foundations in Music Education III is the final foundations course in the music education sequence. It is a reading intensive course in the history of educational thought and practices in music education in the . United States from the Colonial Period to current times. Students will study the philosophical bases and historical foundations for music education praxis. The course moves chronologically from the roots of Philosophy in Ancient Greece to today, but most emphasis is placed on twentieth century thought and movements in American music education. Credits: 3

MUED301 General Music in Elementary School Frequency: A Specific competencies are developed for implementing general music activities and programs in grades K through six. Co-requisite Courses: MUED 356 Prerequisite Courses: MUED 300 Credits: 2 MUED302 General Music in Secondary School Frequency: B Specific competencies are developed for implementing general music activities and programs in middle school through high school. Co-requisite Courses: MUED 356 Prerequisite Courses: MUED 300 Credits: 3

MUED304 Teaching Instrumental Music I Frequency: A Covers various strategies and techniques employed in elementary and middle school lessons, small and large ensembles, various instructional models, methods, and materials. Emphasis on developing new skills and strategies to plan, deliver, and assess meaningful educational experiences in elementary and middle school settings. Intern teaching with students in elementary and middle school classrooms. Professional standing Prerequisite Courses: MUED 250 and MUED 251 and MUS 232 Co-requisite Courses: MUED 355 MUED 393

Credits: 2

MUED305 Teaching Instrumental Music II Frequency: A Covers various strategies and techniques employed in high school lessons, small and large ensembles, various instructional models, methods and materials. Emphasis on developing new skills and strategies to plan, deliver and assess meaningful educational experiences in a high school setting. Intern teaching with high school students. Professional standing. Prerequisite Courses: MUED 250 and MUED 251 and MUS 232 Credits: 2

MUED310 Guitar Class Frequency: A Designed to enable students to accompany themselves and to lead others in the singing of simple folk and popular songs. Includes use of transposition and capo, more advanced melodic patterns, and melody and accompaniment combinations. Prerequisite Courses: MUED 21 1 Credits: 1

MUED311 Guitar Class Frequency: A Continuation of MUED 310: includes pedagogy of guitar for individuals in public schools, music therapy, and private instruction. Credits: 1 MUED315 Music, Play, and Self Frequency: A A course primarily for students with little or no previous musical knowledge or skill. Examines the relationships among music, play and self, especially with regard to children. Emphasizes activity, creativity and personal expression. Credits: 3

MUED331 Marching Band Techniques Frequency: D Technical and organizational considerations for the public school marching band program. Topics include parade, field and show marching, rehearsal techniques, drill and show design, festivals and competitions, auxiliary and support units. Individual and class projects include field-based instruction. Credits: 2

MUED355 Foundations III Practicum - Secondary Frequency: A Continuation of previous practicum. S/U Grade. Prerequisite Courses: MUED 256 Credits: 0 MUED356 Methods Practicum -Elective Frequency: A Continuation of previous practicum. S/U Grade. Prerequisite Courses: MUED 355 Credits: 0 MUED391 Public School Vocal Conducting Frequency: B Methods and materials for starting and sustaining public school vocal ensemble programs. Stressed are score preparation, advanced conducting problems, and the refinement of rehearsal skills

suitable for public school vocal ensembles. Prerequisite Courses: MUS 232 Credits: 3 MUED392 Public School Vocal Conducting Frequency: B Methods and materials for starting and sustaining public school vocal ensemble programs. Stressed are score preparation, advanced conducting problems, and the refinement of rehearsal skills

suitable for public school vocal ensembles. Prerequisite Courses: MUED 391 Credits: 3

MUED393 Public School Instrumental Conducting Frequency: A Implements methods and strategies studied in MUED 304 in a laboratory rehearsal experience. Score study, rehearsal planning, assessment, conducting, and rehearsal techniques appropriate to elementary and middle school levels. Professional standing. Prerequisite Courses: MUS 232 Credits: 2 MUED394 Public School Instrumental Conducting Frequency: A Implements methods and strategies studies in MUED 305 in a laboratory rehearsal experience. Score study, rehearsal planning, assessment, conducting, and rehearsal techniques appropriate to high school level. Professional standing. Prerequisite Courses: MUS 232 Credits: 2 MUED400 Professional

Semester Frequency: A Student teaching in selected public schools in western New York State under the supervision of college music education faculty and cooperating teachers. With music education faculty advisement, students typically seek placements that provide experience and credentials in the musical specialties, and at the public school levels, in which they expect to seek professional positions. Credits: 14

MUED450-451 Directed Study In Music Education Frequency: A Projects related to music education but not otherwise a part of regular course offerings. Requires a formal Learning Contract approved by a faculty sponsor and the Area Chair for Music Education. Credits: 1-3

MUED470-479 Special Topics in Music Education Frequency: D Studies of area supplementing, not replacing, regular course offerings.. Credits: 1-3

MUED485 Advanced Instrument Pedagogy Frequency: A For instrument majors to learn advanced techniques for teaching their instrument. Course involves teaching beginning instrument classes with guidance and instruction from faculty. Prerequisite Courses: MUED 304 and MUED 393 and MUS 325 Credits: 2

MUED510 Principles of Music Education with Media Frequency: D Study in principles and use of media in instructional situations in music education. Theoretical framework for use of media developed. Student responsible for series of media productions appropriate to music education. Emphasis not on operation of audio-visual equipment, but on effectiveness and efficiency of media-based instruction, thus suitable for non-music majors with some familiarity with music in school situations, but whose interest in media may be more far-reaching. Credits: 3

MUED513 Systematic Design of Curricula for Music Education Frequency: D Systematic design of curricula for all areas of music education. Each participant develops actual curriculum, plans for using and evaluating it, and means for evaluating and reporting students' progress. Credits: 3

MUED514 Psychology of Music Frequency: B Study of empirical aesthetics. Explores characteristics of aesthetic response, structural characteristics of music as they relate to aesthetic responses, and theories that describe how this response is achieved and developed. Empirical research studies examined within these theoretical contexts. Credits: 3

MUED522 Psychological Research in Music Frequency B Resources, techniques, applications, and processes in research in music education and therapy. Special emphasis will be on psychological and experimental research. Credits: 3

MUED555 Special Topics Workshop Frequency: B Usually summer or other short-term workshops dealing with specific music literature, techniques, problems, or teaching methodologies. Maximum of 6 credit hours in increments of no more than 3 credit hours may apply, with permission, to requirements in the Elective Course Work by Advisement category. Credits: 1-3

MUED565 Special Topics Seminar Frequency: B Presentation and investigation of a specific but not regularly scheduled topic of current need or interest. Course may be repeated to a maximum of 6 credit hours (in different topics) and may apply with permission to requirements in the categories of Music Education and related Course Work or Elective Course Work by Advisement. Credits: 1-3 MUED590-591 Special Studies Frequency: A Studies not otherwise available as regular course offerings relevant to students' programs or career plans, pursued in independent, directed, or tutorial manner. Student must submit proposal for approval, available in School of Music Office. Student must also secure agreement of faculty member to sponsor the study. Maximum of 6 hours of any combination of MUS and MUED may be earned this way in increments of no more than 3 credit hours. Credits: 1-6

MUED609 Administration and Supervision of School Music Frequency: D Study of current practices. Topics include supervision, in-service education, curricular and instructional developments, public relations, finance, facilities, and resources. Individual projects connected to teaching situations. Credits: 3

MUED618 Seminar in Music Education Frequency: B Presentation and examination of current topics of relevance to music educators. Outside faculty, students, and others in music and related fields called upon as needed. Individual projects. Credits: 3 MUED619 Foundations of Music Education I Frequency: B Study of philosophical and historical foundations of music education, emphasizing current issues and developments.

Particular application to curriculum and instruction in school music. Required. Credits: 3

MUED620 Foundations of Music Education II Frequency: B Study of psychological and sociological foundations of music education, emphasizing current issues and developments. Particular application to curriculum and instruction in school music. Required. Credits: 3

MUED621 Music Education Foundations III Frequency: B Study of curriculum and assessment in music education, emphasizing a synthesis of previous course work. Written project required. This should be the final Music Education course after all requirements are met in the Music Education category, all but three hours completed in the Musicianship category, and all but three hours completed in the elective category. Prerequisites Courses: MUED 618 619 Credits: 3

MUED651 Philosophical Perspectives of Music Education Frequency: D Examination of important philosophies, relevance to music education and educator; aesthetics; contemporary educational philosophies including Existentialism, Reconstructionism, Experimentalism, Realism, Idealism, and philosophies of mind as they relate to the artistic experience and arts education, emphasis on developing, articulating, and defending a philosophical point of view. Credits: 3

MUED652 Psychological Perspective for Music Education Frequency: D Examination of important psychological developments and theories and their importance for music education and the music educator: psychology of aesthetics, humanistic psychology, current learning theory, and child and adolescent development as related to problems of instruction in music. Emphasis on articulating and defending methods of instruction and choice of musical content in terms of psychological principles. Credits: 3

MUED695 Thesis/Final Project Frequency: D Study/research culminating in a Thesis, a Composition/ Arrangement, or a Performance Recital as required in the Final Project Program. Candidate must register for this course in each semester or term during which the services of the Project Leader are actively engaged toward the completion of the Final Project. Maximum of 3 credit hours. Credits: 1-3

Music (MUS)

MUS01 Music Freshmen Seminar Frequency: D An introduction to music designed to acquaint first semester music majors with the basics of the field. Topics include studying music and using the library; an outline of the basic concepts, styles and terminology found in the world; and an introduction to the many professions available to musicians. Credits: 1

MUS021-048 Music Ensembles Frequency: A All music students participate in the college music ensembles, the required number of participations varying among the several music curricula. Participation in any ensemble is open to students in other departments of the college by audition and consent of the conductor and/or Director of the School of Music. MUS021 University Chorus* MUS022 College Choir MUS023 Chamber Singers MUS024 Women's Chorus MUS025 All-College Band' MUS026 Concert Band MUS027 Wind Symphony MUS028 Wind Ensemble Symphony Orchestra Chamber Orchestra MUS029 MUS030 MUS031 String Chamber Orchestra MUS032 Music Theater Ensemble MUS033 Opera Production Practicum MUS034 Opera Workshop MUS035 Piano Ensemble MUS036 Woodwind Chamber Ensemble MUS037 Brass Chamber Ensemble MUS038 Saxophone Ensemble MUS039 Flute Ensemble MUS040 Brass Choir MUS041 Percussion Ensemble MUS042 African Drumming Ensemble MUS043 Guitar Chamber Ensemble MUS044 Guitar Quartet MUS045 Guitar Ensemble MUS046 Jazz Ensemble MUS047 Jazz Combo MUS048 Special Ensemble MUS049 Special Ensemble MUS050 Special Ensemble * Ensembles that do not require an audition and are open to non-music majors. Credits: 0

MUS100 Recital-Seminar Frequency: A Required of all freshman music majors enrolled in private applied music instruction or composition. Students perform or critique performance or composition of colleagues during one recital-seminar each week. Recital schedule rotated: one week, studio; next week, area; following, school recitals. Credits: 0

MUS101-102 Beginning Music Theory I and II Frequency: B For students with little or no background in music. Course deals with beginning and rudimentary aspects of music including clefs, scales, chords, key signatures, melody, harmony, ear training, and aural perception. Credits: 3 MUS103 Beginning Piano Class for Non-Major Frequency: D A one semester beginning piano class for non-majors. Credits: 1

MUS104 Applied Music Class Non-Music Majors Frequency: D Group instruction in voice, keyboard, and orchestral instruments for students not majoring in music. Previous experience in performance medium required. Enables student to enhance performance ability in performance area. May involve rental of instrument. Course may be repeated for credit. Credits: 1

MUS105-106 Applied Music Major Frequency: A Weekly half-hour private applied

Meeting harmonic private appried instruction for music majors in Bachelor of Arts and Bachelor of Science degree programs. See MUS 125-126 for further information about the, , requirements of specific studios. Credits: 2

MUS107 Double Reed Class I Frequency: B (Required for all freshman oboe and bassoon majors.) The beginning fundamentals of reed making are covered including formation of a blank and rudimentary scraping skills. Credits: 0.5

MUS108 Double Reed Class II Frequency: B (Required for all freshman oboe and bassoon majors.) A continuation of Class I. The course covers shaping, gouging and refinement of scraping skills. Prerequisite Courses: MUS 107 Credits: 0.5

MUS109 Harp Class, Elementary Frequency: A Introductory course for beginners on the harp. Hand position, finger exercises, and tone production. Credits: 1

MUS110 Harp Class, Intermediate Frequency: B Continuing development of tone and technique: elementary harp repertoire. Prerequisite Courses: MUS 109 Credits: 1

MUS113 Voice Class Frequency: A One-semester course in basic vocal skills. Primary objective is to develop vocal technique for demonstration as instrumental or vocal conductor, and for choral participation. Credits: I MUS115 Music Appreciation Frequency: A Introduction to music in Western civilization: materials of music (melody, harmony, rhythm, tempo, dynamics, musical structure and design, and musical structure and design, and musical style); various performance media. Major composers of each musical epoch discussed, musical examples listened to in class. Covers 19th century Romanticism; 18th century classicism; medieval, renaissance, and baroque music; the 20th century, and the American scene. Credits: 3

MUS116 Conditional Applied Major Frequency: A

Instruction in voice, keyboard, and orchestral instruments for those music majors not eligible to enroll in MUS 125 (or 105) Applied Music Major. A student may enroll for this course twice. Credits: 2

MUS117-118 Piano Class, Elementary Frequency: A For students with little or no piano background. Development of beginning technique through major and minor scales and arpeggios, chord study, harmonization, transposition, sight reading, pedal usage, and improvisation. Credits: 1

MUS119 Free Improvisation Frequency: A This course is an exploration of the art of music improvisation for self-expression. It is taught in a supportive, safe environment of non-judgment, in order to give students the freedom needed to create music spontaneously. The voice is considered the primary instrument. Drums, and other World Music instruments will be provided. Other instruments-primary, secondary, or otherwise may be used in the class. Credits: 1

MUS120 Concert Attendance Frequency: A Attendance at a minimum of eight approved concerts (including faculty solo and ensemble recitals, WNY Chamber Orchestra, visiting artists, and major student ensembles) each semester. Credits: 0

MUS121 Aural Theory I Frequency: A Course deals with various aspects of ear training including melodic, harmonic, and formal perception as well as sight-singing skills. Credits: 2

MUS122 Aural Theory II Frequency: A A continuation of MUS 121 dealing with various aspects of ear training including melodic, harmonic, and formal perceptions as well as sight-singing skills. Prerequisite Courses: MUS 121 with minimum C- grade Credits: 2 COURSE

MUS123 Written Theory I

MUS124 Written Theory II

Course deals with the rudimentary

aspects of harmony, melody, form,

Frequency: A A continuation of MUS 122 dealing

with more advanced aspects of

harmony, melody, form, and style

Prerequisite Courses: MUS 123

MUS125-126 Applied Music

Weekly hour private applied

instruction for music majors in

Bachelor of Music in Performance

and Bachelor of Music in Music

Education degree programs.

MUS127-128 Applied Music

Weekly half-hour private applied

instruction for music majors in Bachelor of Music-Composition

Study of solfege and conducting

MUS137-140 Diction for Singers

understanding of the International

Phonetic Alphabet (IPA) and a

symbols to the sounds of Italian,

German, French, Latin and English dictions. The course is

designed for voice students in all

by students from other majors as

Frequency: A Required of all sophomore music

majors enrolled in private applied

music instruction or composition.

Students perform or critique the

recital-seminar each week. Recital

studio; the next week, area; and

MUS205 Applied Music Major

Freauency: P Weekly half-hour private applied

Science and Bachelor of Music in

Composition degree programs. See MUS 225-226 for further

requirements of specific studios. Prerequisite Courses: MUS 106

information about the

instruction for music majors in

Bachelor of Arts, Bachelor of

the following week, school recitals.

performance or composition of

schedule rotated: one week,

colleagues during one

music curricula, and may be taken

as basic tools of musicianship.

A Two-semester sequence

intended to give singers an

thorough application of IPA

MUS200 Recital Seminar

with minimum C- grade

Frequency: A

Credits: 2

analysis

Credits: 2

Frequency: A

Credits: 2

(Composition)

Frequency: A

degree program. Credits: 1

Musicianship

Credits: 1

well

Credits: 1

Credits: 0

Credits: 2

Frequency: A

Frequency: B

MUS131-132 Applied

Maior

and style analysis.

DESCRIPTIONS

MUS206 Applied Music Major Frequency: A Weekly half-hour private applied instruction for music majors in Bachelor of Arts, Bachelor of Science and Bachelor of Music in Composition degree programs. See MUS 225-226 for further information about the, , requirements of specific studios. Prerequisite Courses: MUS 205 Credits: 2

MUS209 Harp Class, Advanced Frequency: D Advanced training in technique: scales, arpeggios, harmonies, pedal studies, chords, octaves, glissandi, and finger exercises in velocity. Prerequisite Courses: MUS 110 Credits: I MUS217 Piano Class,

Intermediate Frequency: A Intermediate course in functional piano playing of major, minor, modal scales, arpeggios, harmonization using primary and secondary chords, seventh chords, and secondary dominants; transposition, improvisation and sight reading. Prerequisite Courses: MUS 118 Credits: 1

MUS218 Piano Class, Intermediate Frequency: A Continuation of development of functional piano skills through technique studies, harmonization, part reading, transposition, improvisation and accompanying. Piano Standards barrier exam at end of course. Prerequisite Courses: MUS 217 Credits: 1

MUS221 Aural Theory III Frequency: A A continuation of MUS 123 dealing with more advanced aspects Of ear training including melodic, harmonic, and formal perception as well as sightsinging skills. Prerequisite Courses: MUS 122 with minimum C- grade Credits: 2

MUS222 Aural Theory IV Frequency: A A continuation of MUS 221 dealing with the more advanced aspects of ear training including melodic, harmonic, and formal perception as well as sightsinging skills. Prerequisite Courses: MUS 221 with minimum C- grade Credits: 2

MUS223 Written Theory III Frequency: A A continuation of MUS 124 dealing with more advanced aspects of harmony, form, and style analysis. Prerequisite Courses: MUS 124 with minimum C- grade Credits: 2 MUS224 Written Theory IV Frequency: A A continuation of MUS 223 dealing with advanced harmony, form, and style analysis. Prerequisite Courses: MUS 223 with minimum C- grade Credits: 2

MUS225 Applied Music Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin. Voice. Prerequisite Courses: MUS 126 Credits: 2

MUS226 Applied Music Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 225 Credits: 2

MUS231 Conducting I Frequency: B Basic conducting technique with special emphasis on score reading and improved aural skills, rehearsal planning and efficient use of time, conducting leadership style, and ability to communicate effectively with an ensemble. Prerequisite Courses: MUS 132 Credits: 2

MUS232 Conducting II Frequency: B Continuation of skills developed in MUS 231. Special emphasis on interpretation within defensible parameters, aural refinements in overcoming difficulties, diction (chorus)/articulation (instrumental), balance, and blend. Prerequisite Courses: MUS 231 Credits: 2

MUS235 Musical Theatre Voice Frequency: A Continuation of fundamentals of vocal technique. Emphasis upon German literature and literature from the Broadway stage. Continued study of contemporary vocal literature as well as introduction to operatic and oratorio repertoire. Prerequisite Courses: MUS 126 Credits: 3

MUS236 Musical Theatre Voice Frequency: A Continuation of fundamentals of vocal technique. Emphasis upon German literature and literature from the Broadway stage. Continued study of contemporary vocal literature as well as introduction to operatic and oratorio repertoire. Prerequisite Courses: MUS 235 Credits: 3

MUS237 Composition Seminar Frequency: B First semester: introduction to free composition concentrating on creative musical inclinations of individual student. Second semester: continuation of first. increased attention to preparing student compositions for performance. Prerequisite Courses: MUS 122 and MUS 123 and MUS 124 Credits: 2 MUS238 Composition Seminar Frequency: B First semester: introduction to free composition concentrating on creative musical inclinations of individual student. Second semester: continuation of first, increased attention to preparing student compositions for performance. Prerequisite Courses: MUS 237 Credits: 2 MUS245 Performance Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 126 Credits: 4 MUS246 Performance Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 245 Credits: 4 MUS262 American Music Frequency: C Survey of US. music, Colonial times to present. Such American developments studied as music of first New England School, vernacular and black music of 19th century, jazz, and mixed media music of 20th century. American music which parallels and absorbs European developments and distinctly American contributions to Western music, such as music of lves, Gershwin, and Copland included. Credits: 3 MUS263 Music History in West Civilization Frequency: D Survey of western art music from the medieval era to the present day, focusing on primary composers and their works, and major style periods. Through readings and listening assignments the course will construct a basic historical narrative of music as an evolving

art form and as an integral aspect

of society and culture.

Credits: 3

MUS264 Topics in Music History Frequency: D A conceptual approach to music history of common practice period (1730-1850) to the early 20th century with an emphasis on music of the United States. Materials will be presented in a topical fashion, introducing specific issues relevant to musical developments such as Music Aesthetics and Music as Intellectual Properly among others. Credits: 3

MUS265 History of Jazz Frequency: B For majors and non-majors. History of jazz, early African American origins through 1970s. Survey of principal movements and personalities in jazz and sociological and cultural influences on these movements. Credits: 3

MUS267 African American Music Frequency: B Non-chronological history of African American music from its African roots through American forms of work songs, cries, hollars, spirituals, blues, ragtime, jazz, rhythm and blues, rock and roll, soul, gospel, reggae, rap, and zydeco, and music written by 20th century black composers. Credits: 3

MUS269 Music Criticism Frequency: B Development of method and vocabulary for critiquing musical works and performances. Extensive in-class listening and discussion. Reading assignment\$ survey the history of music criticism and compare reviews of various musical genres and other arts. Writing assignments include reviews of concerts and recordings. Non-music majors should have taken a college-level music course or have significant experience in music activities. Prerequisite Courses: ENGL 100 Credits: 3

MUS270 The History of American Popular Music, 1900-1 963 Frequency: D A non-technical survey of the twentieth-century American popular music genres, beginning with ragtime and ending at the time of the emergence of the new British rock. Among the subjects covered will be vaudeville, blues, country music, the Big Band era, Broadway and Hollywood, pop vocalists, rhythm and blues, early rock 'n' roll, and ethnic and regional popular music. Classes will consist of listening and discussion. Written assignments will be based on required and supplemental listening and recommended readings. Credits: 3

MUS300 Recital Seminar Frequency: A Required of all junior-level music majors enrolled in private applied music instruction or composition. Students perform or critique performance or composition of colleagues during one recital-seminar each week. Recital schedule rotated: one-week studio, the next week area, and following week school recitals. Credits: 0

MUS305 Applied Music Major Frequency: A Weekly half-hour private applied instruction for music majors in Bachelor of Arts and Bachelor of Music in Composition degree programs. See MUS 325-326 for further information about the requirements of specific studios. Prerequisite Courses: MUS 206 Credits: 2

MUS306 Applied Music Major Frequency: A Weekly half-hour private applied instruction for music majors in Bachelor of Arts and Bachelor of Music in Compositipn degree programs. See MUS325-326 for further information about the requirements of specific studios. Prerequisite Courses: MUS 305 Credits: 2

MUS315-316 Secondary Applied Study Frequency: A Weekly one-half hour private instruction on an instrument other than a student's principal applied instrument, and for which the student has already had the appropriate secondary applied group instruction in a playing class. Credits: 1

MUS317 Piano Class Frequency: A More advanced class for non-keyboard major with emphasis on technique development, sight reading, ensemble playing and repertoire such as Bach, Two-Part Invention; Chopin, Prelude in B minor, and Sonatinas by Clementi, Kuhlau. Prerequisite Courses: MUS 218 Credits: 1

MUS318 Piano Class Frequency: A More advanced class with emphasis on performance of solo piano literature, accompaniment of vocal and instrumental solos and choral accompaniments Prerequisite Courses: MUS 317 Credits: 1

MUS325-326 Applied Music Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass. Euphonium,

Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin. Voice. Prerequisite Courses: MUS 226 Credits: 2

MUS330 Advanced Instrumental Conducting Frequency: A

Develop proficiency in manual and aural skills with special emphasis on rehearsal techniques. Studies and practices aimed toward improved clarity and musicality of basic conducting technique. Practical exploration of rehearsal techniques with an emphasis on efficiency of solving problems of balance, ensemble, intonation and phrasing. Prerequisite Courses: MUS 222,

224, 231, and 232 Credits: 2

MUS333 Musics of the World Frequency: B Non-technical introduction to ethnomusicology. Survey of musical styles from around the world ombacijing how music

world emphasizing how music reflects and influences society. Credits: 3

MUS334 Music of Latin America Frequency: D

Survey of the Concert Music of Latin America from colonial times to the present. Special emphasis will be placed on the unique culture of this region and its relationship to the compositional characteristics of its music. Students will become familiar with the geography, history, and distinctive elements which make up the major regions (Rio de la Plata, Caribbean, Andean, etc.). All genres, major composers (Villa-Lobos, Ginastera, Chavez et al), and basic bibliography will be studied. Although there are no prerequisites, a reading knowledge of Spanish would be desirable. Credits: 3

MUS335-336 Musical Theatre Voice Frequency: A

Continuation of the study of vocal techniques. Possible inclusion of the French repertoire. Continuation of the study of literature of the Broadway stage, opera and oratorio. Prerequisite Courses: MUS 236 Credits: 3

MUS337 Composition Seminar Frequency: B Original work in composition accompanied by study and analysis of past and contemporary musical compositions and creative concepts. Prerequisite Courses: MUS 222 and MUS 223 and MUS 224 Credits: 2

MUS338 Composition Seminar Frequency: B Original work in composition accompanied by study and analysis of past and contemporary musical compositions and creative concepts. Prerequisite Courses: MUS 337 Credits: 2 MUS340 Piano Pedagogy Frequency: C Study of the various methods and literature for the elementary student. Lectures and discussions. Observations of private and class lessons. Supervised teaching. Prerequisite Courses: MUS 226 Credits: 2

MUS344 Vocal Pedagogy Frequency: D Introduction to the objective study of the art of singing. Students will develop a working knowledge of the anatomy and physiology of the vocal mechanism as it relates to posture, respiration, phonation, resonance and articulation in singing. Findings from other sciences are applied to problems of vocal development, voice disorders and vocal hygiene. Students are expected to develop a knowledge base in these areas sufficient to demonstrate competence in working with voices of all ages in a voice studio setting. Credits: 2

MUS345-346 Performance Major Frequency: A Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 246 Credits: 4

MUS347-348 Applied Music Recitation Frequency: A Student prepares Junior Performance Recital while enrolled in MUS 347-348. Recitations scheduled concurrently with appropriate semesters of Applied Music (MUS 345, 347, and 346, 348). Credits: 1

MUS349 Vocal Pedagogy Practicum Frequency: A Students act as voice instructors for approximately 15 contact hours per semester teaching studio voice lessons. One two hour weekly seminar concentrates on methods of building voices, assessing and assigning vocal literature, building recital programs, choice and use of exercises and vocalizes. Prerequisite Courses: MUS 344 Credits: I

MUS350 Special Topics in Music History Frequency: D A course to permit music history instructors to initiate special studies in specialized subjects. Prerequisite Courses: MUS 160 and MUS 255 Credits: 3 MUS351 Independent Study Music History Frequency: D An opportunity for a student to pursue a limited study under supervision. The study will usually result in a research-based term paper. Prerequisite Courses: MUS 160 and MUS 252 and MUS 255 Credits: 1

MUS354 Form and Analysis Frequency: C Development of skills for analysis of musical form, from small song forms to large symphonic works. Prerequisite Courses: MUS 222 and MUS 223 and MUS 224 Credits: 3

MUS355-356 Performance Practicum Frequency: A Music Performance majors in orchestral instruments tutoring secondary or non-major applied music classes under supervision of applied studio faculty. Credits: 0

MUS358 Governments and the Avant Garde Frequency: D Interdisciplinary course begins with a section on arts and governments of former times, and in socialist countries, to provide an historical context for systems current in the U.S. and Canada. Then the arts-funding institutions of the U.S. and Canada will be studied. The actual interactions of U.S. and Canadian governments and artists will be compared. Credits: 3

MUS361 Jazz Improvisation Frequency: B A performance lab and study of various theoretical foundations of improvised jazz. Mainstream style is emphasized. Prerequisite Courses: MUS 122 and MUS 124 Credits: 2

MUS362 Jazz Theory Frequency: B A study of jazz harmony: chord symbols, melody, harmonization, chord extensions and substitutions in various jazz styles. Ear training in jazz style will also be included. Credits: 2

MUS363 Jazz Pedagogy Frequency: B Methods, procedures and concepts of teaching various styles of jazz. The emphasis will be on public school education. Credits: 2 MUS371 Woodwind Repair Frequency: C Introduction to common repair problems, preventative maintenance, adjustments necessary to maintain good playing condition, and emergency repairs on the woodwind instruments. Replacement of pads, springs, corks and felts. Prerequisite Courses: MUED 271

Prerequisite Courses: MUED 271 and MUED 272 Credits: 2

MUS372-379 Special Topics in Music Frequency: D Study of music areas supplementing but not replacing regular courses. Topics, credit hours, and instructor determined by school. Credits: 1-3

MUS380 The Business of Music Frequency: C A comprehensive exploration of the various facets of the music business including careers in music, music publishing (copyrights, licensing, music books, exploitation of catalogue), the record business (recording, artist management, licensing, record distribution), tour management, self-employment business basics and ethics in the music business. Credits: 3

MUS383 French Song Frequency: D A study of selected 19th and 20th century French vocal literature in its literary and musical context, to acquaint singers and pianists with composers and poets from the viewpoint of intellectual history and literary movements. Prerequisite Courses: MUS 137 and MUS 138 and MUS 139 and MUS 140 Co-requisite Courses: GERM 387 Credits: 2

MUS387 German Song Frequency: D A study of selected German vocal literature in its literary and musical context to acquaint singers and pianists with authors and their background from the viewpoint of intellectual history and literary movements. Credits: 2

MUS395 Career/Business Management for Musicians Frequency: C Business and marketing skills for the professional performing musician and private studio teacher. Career and financial planning, accounting and record-keeping, taxes and insurance, contracts and booking, promotion and marketing, etc. Prerequisite: Junior standing in Music or permission of instructor. Credits: 3

COURSE

DESCRIPTIONS

MUS400 Recital Seminar Frequency: A Required of all senior-level Music majors enrolled in private applied music instruction or composition. Students perform or critique performance or composition of colleagues during one recital-seminar each week. Recital schedule rotated: one-week studio, the next week area, and following week, school recitals. Credits: 0

MUS401 Orchestration Frequency: C Fundamentals of scoring for orchestra with particular attention to range, color, transposition, and technical possibilities of individual instruments. Special characteristics of the various choirs and appropriate scoring for different styles of compositions. Student papers projected on screen for class performance and evaluation. Prerequisite Courses: MUS 122 and MUS 123 and MUS 124 and MUS 160 Credits: 3

MUS403 20th Century Counterpoint Frequency: C A study of the art of counterpoint as practiced from its beginning in western musical history to the present, concentrating on analysis of important examples and some compositional exercises based thereon. Prerequisite Courses: MUS 160 and MUS 222 and MUS 224 Credits: 3 MUS404 Choral Arranging Frequency: B Fundamental techniques of arranging for a cappella and accompanied choral groups. Deals primarily with problems of public school-aged choral ensembles, their specific characteristics and limitations, including ranges, voice combinations, and suitable

material. Includes consideration of use of special choral devices and treatments. Prerequisite Courses: MUS 222 and MUS 223 and MUS 224 Credits: 2

MUS405-406 Applied Music Major

Frequency: A Weekly half-hour private applied instruction for Music majors in Bachelor of Arts in Applied Music degree program. See MUS 425-426 for further information about the requirements of specific studios. Prerequisite Courses: MUS 306 Credits: 2

MUS408 History and Literature of the Wind Band Frequency: D Survey of various influences (political, social, musical, etc.) upon the development of the Wind Band and its repertoire. Extensive listening, analysis and discussion with individual projects including bibliography and discography development. Credits: 3

MUS409 History and Literature of the Guitar Frequency: D For majors and non-majors. A survey of guitar history from the years 1487 to the present. Primary attention will be devoted to guitar composed performers and their musical wok examined in historical, aesthetii and social contexts. These include: musical fon and genre; compositional practices and procedures; aspects of the composer's biography and/or historical events that shaped his or herattitudes; general intellectual trends that helped to shape musical practices; and the original venues and circumstances in which the musical works were created and heard Prerequisite Courses: MUS 160 Credits: 3

MUS415 Piano Class for Keyboard Majors Frequency: B Introductory course in functional piano for keyboard majors. Technical study of modal scales, harmonization using primary and secondary chords, secondary dominant chords, and seventh chords in folk, pop and beginning jazz style, transposition, part-reading, ensemble playing, playing by ear, sight reading and improvisation. Prerequisite Courses: MUS 317 and MUS 318 Credits: I

MUS416 Piano Class for Keyboard Majors Frequency: B Continuation of development of functional piano skills of harmonization, part-reading, transposition, sight reading, and improvisation; playing and improvising rags, and writing or arranging a piano duet. Piano standards barrier exam at end of course Prerequisite Courses: MUS 415 Credits: 1

MUS417 Piano Class for Non-Keyboard Major Frequency: A More advanced course in functional piano with emphasis on harmonization in pop and jazz style. Continued work on transposition, sight reading, playing by ear and part-reading. Music Education majors take the piano proficiency barrier at conclusion of course. Prerequisite Courses: MUS 317 and MUS 318 Credits: I

MUS418 Piano Improvisation for Non-Keyboard . Majors Frequency: A Emphasis on harmonization of lead sheets with jazz voicings, chord substitution, creative harmonization, tri-tone substitution; improvisation of 12 bar blues and boogie. Prerequisite Courses: MUS 317 and MUS 318 Credits: 1 MUS420 Piano Literature

Frequency: C Survey of representative piano literature for performance and teaching. Analysis of principal works of Bach, Haydn, Mozart, Beethoven, Chopin, Brahms, Schumann, Liszt, and the impressionistic and modern composers. Emphasis on structural and stylistic considerations. Prerequisite Courses: MUS 160 and MUS 221 and MUS 222 and MUS 223 Credits: 3

MUS424 The History of Opera Frequency: D Technical study of opera emphasizing its musical and dramatic development, relating it to social, cultural, and intellectual forces influencing it. Prerequisite Courses: MUS 122 and MUS 123 and MUS 124 and MUS 160 Credits: 3 MUS425-426 Applied Music Major Frequency: A Preparation for senior recital. Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium,

Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 326 Credits: 2 MUS433 Romanticism and

Music Frequency: D Investigation of aesthetic and philosophical concepts of Romanticism in art, literature, and philosophy; search for those conceptual characteristics in history of musical style. Credits: 3

MUS435-436 Musical Theatre Voice Frequency: A Preparation of the B.F.A. in Musical Theatre recital which includes dance technique, acting technique and the culmination of the three previous years of vocal study. Prerequisite Courses: MUS 336 Credits: 3

MUS437 Composition Seminar Frequency: B Free composition in seminar and semi-private consultations. Prerequisite Courses: MUS 338 Credits: 2

MUS438 Composition Seminar Frequency: B Free composition in seminar and semi-private consultations. Prerequisite Courses: MUS 437 Credits: 2

MUS439 Composition Seminar Frequency: A Continuation of free composition with detailed study of 20th century compositional techniques. Credits: 3

MUS440 Composition for Electronic Media I Frequency: B Basic compositional and technical skills necessary for realization of electronic music. Emphasis on proper recording, editing, mixing, and synthesis techniques as they relate to the composer. Analog synthesis is stressed. An introduction to digital synthesis (MIDI, FM, computer-assisted composition) also included. Brief historical survey of medium presented. Prerequisite Courses: MUS 122 and MUS 123 and MUS 124 and MUS 160 Credits: 3

MUS441 Composition for Electronic Media II Frequency: B Electronic music composed and realized using a variety of computer-related techniques. Covers digital recording and synthesis using MIDI and other digital audio hardware/software. Emphasis on MIDI and audio sequencing. Related topics include electronic orchestration, computer assisted software and algorithms, and literature. Prerequisite Courses: MUS 122 and MUS 123 and MUS 124 and MUS 440 Credits: 3

MUS445-446 Performance Major Frequency: A Preparation for senior recital. Bassoon, Cello, Clarinet, Classical Guitar, Double Bass, Euphonium, Flute, French Horn, Harp, Oboe, Percussion, Piano, Saxophone, Trombone, Trumpet, Tuba, Viola, Violin, Voice. Prerequisite Courses: MUS 346 Credits: 4

MUS447-448 Applied Music Recitation Frequency: A Student prepares Senior Performance Recital while enrolled in MUS 447-448. Recitations scheduled concurrently with appropriate semesters of Applied Music (445, 447 and 446, 448). Credits: 1

COURSE DESCRIPTIONS 161

MUS450-451 Directed Studies Frequency: A Directed Studies in music. Designed exclusively for Elementary/Childhood Education majors with a concentration in music. Includes voice proficiency, vocal instruction, observation of elementary music classrooms, and conducting. Credits: 2

MUS453 The Baroque Period in Music Frequency: D

Detailed study of styles, trends, and developments in music, 17th and 18th centuries through pre-classic era. Music studied through scores, recordings, and performance. Review of important historical and theoretical developments. Prerequisite Courses: MUS 160 Credits: 3

MUS454 The Classical Period in Music Frequency: D Study of styles, trends, and developments in music in Classical period (ca. 1740-1820). Study of music of Haydn, Mozart, and other composers included. Music studied through scores, recordings, and performance. Historical and theoretical developments. Prerequisite Courses: MUS 160 Credits: 3

MUS455 The Romantic Period in Music

Frequency: D Music composers, and theorists of 19th and 20th centuries, from after Beethoven through impressionists. Emphasis on developments in the music through study of scores and performance. Parallels between musical romanticism and romanticism in other arts. Prerequisite Courses: MUS 252 Credits: 3

MUS456 The Modern Period in Music Frequency: D Detailed historical study of 20th century composers, musical trends, and developments. Variety of Contemporary styles, experimentation, and performance practice in recent music emphasized. Recorded examples. Prerequisite Courses: MUS 255 Credits: 3

MUS457 Seminar in Popular Music

Frequency: D This seminar examines the ways in which contemporary popular music both reflects and influences contemporary society. A brief history of American popular music and its styles will be followed by discussions based on topics such as cover tunes, music videos, cross-over artists, and the music business. Junior standing required. Credits: 3 MUS458 Cult of Elizabeth/Patronage in Arts Frequency: D For upper-level non-music majors. Course deals with understanding of the purposes of the Cult of Elizabeth in Renaissance England and to assess its effect on music and other arts of the age. With the Elizabethan patronage model as a foundation for understanding the relationships between governments and the arts, the present system of support for the arts will be assessed, debated and critiaued Credits: 3

MUS460-461 Independent Study Frequency: A Maximum of 6 hours of independent study in music or music education exclusive of applied music. Projects selected from subject areas not available in regularly scheduled course offerings. Well in advance of registration for either regular or summer session, student must complete independent study request form (in triplicate) available in the School of Music office. Credits: 1-3

MUS470-471 Special Topics Workshop Frequency: D Usually summer or other short-term workshop/institutes dealing with specific music literature, topics, problems, or teaching approaches and techniques. Credits: 1-6 MUS476 Audio and Desktop

Multimedia Frequency: B Course designed for Media Arts Sound Production majors and other students with a strong interest and background in composition, multimedia, audio and MIDI. A project-oriented course which focuses on audio design, analysis, and integration as it applies to multimedia authoring, motion video, and web content creation. Prerequisite Courses: MUED 291 Credits: 3

MUS485 Multimedia for Musicians Frequency: B

A course designed for musicians and music educators focusing on the preparation and integration of various elements (text, graphics, video, music) with the goal of producing interactive or self-running computer-based presentations. Related topics include; design and content issues, music and authoring software, media preparation and creation, and final delivery. Prerequisite Courses: MUED 291 Credits: 3

Composition Frequency: A An original composition representing the most mature work of the apprentice composer. Students with inclinations toward graduate work in music theory will also supply a complete written analysis of the final composition. The scope and content of all final projects are subject to the approval of the area chairperson. Credits: 3 MUS502 Harmonic Styles Since 1850 Frequency: D Analytical and compositional study of stylistic developments since 1850 which extend, expand, depart from or negate "common-practice" harmony and tonality. Major composers studied. Emphasis on gaining understanding of their harmonic styles via analysis and compositional imitation by student. Individual projects required. Prerequisite Courses: MUS 160 and MUS 221 Credits: 3 MUS503 Twentieth Century Counterpoint Frequency: D Study of linear aspects of music via combining melodies into various textures. Special emphasis on revival of contrapuntal techniques in 20th century by such composers as Busoni, Hindemith, Bartok, Schoenberg, Webern, and their successors; these techniques and styles used in direct composition. Prerequisite Courses: MUS 160 Credits: 3 MUS506 Basic Studies Seminar: Theory Frequency: C A review of the principles and practices of music theory/composition. centering on the "common practice" period but not confined to it, and geared to the individual needs of participating students, whose prior involvement with theory may not be recent or extensive. Syllabi for particular areas of study, relevant texts, scores and recordings in library, assignments leading to final paper. Credits: 3 MUS507 Basic Studies Seminar: History Frequency: C

MUS491 Senior Project in

A review of the basic framework of Western musical history, centered on a core repertory but not restricted by it, with class listening and discussion: individual projects required of students, utilizing standard research procedures and reference materials, including scores and recordings; optionally also class lecture and/or performance by students. Credits: 3 MUS508 History and Literature of the Wind Band Frequency: C Survey of various influences (political, social, musical, etc.) upon the development of the Wind Band and its repertoire. Extensive listening, analysis and discussion with individual projects including bibliography and discography development. Credits: 3

MUS520 Piano Literature Frequency: C Survey of representative piano literature for performance and teaching. Analysis of principal works of Bach, Haydn, Mozart, Beethoven, Chopen, Brahms, Schumann, Liszt, and the impressionistic and modern composers. Emphasis on structural and stylistic considerations. Credits: 3

MUS521 Music Bibliography Frequency: D An exploration of the resources and techniques needed for graduate studies in all areas of music. Students will learn to examine and critically evaluate music resources in both traditional and electronic forms, and will develop research strategies that can be adapted to many different areas of study. Through a variety of projects and in-class presentations, students will become better equipped to undertake graduate level music research, and to ultimately present that research with proper bibliographic style according to established scholarly conventions. Credits: 3

MUS542 Renaissance Period in Music Frequency: D Detailed study of styles, trends, and developments in music in 15th and 16th centuries. Survey of 14th century, Ars Nova period also included. Philosophical and theoretical ideas of period studied as well as the actual music. Performance of Renaissance music stressed. Prerequisite Courses: MUS 160 Credits: 3

MUS543 Baroque Period in Music Frequency: D Detailed study of styles, trends, and developments in music, 17th and 18th centuries through pre-classic era. Music studied through scores, recordings, and performance. Review of important historical and theoretical developments. Prerequisite Courses: MUS 160 Credits: 3 MUS544 Classical Period in Music Frequency: D Study of styles, trends, and developments in music in classical period (ca. 1740-1820). Study of music of Haydn, Mozart, and other composers included. Music studied through scores, recordings, and performance. Historical and theoretical developments. Prerequisite Courses: MUS 160 Credits: 3

MUS545 Romantic Period in Music

Frequency: D Music, composers, and theorists of 19th and 20th centuries, from after Beethoven through impressionists. Emphasis on developments in the music through study of scores and performance. Parallels between musical romanticism and romanticism in other arts. Prerequisite Courses: MUS 160 Credits: 3

MUS546 Modern Period in Music Frequency: D Detailed historical study of 20th century composers, musical trends, and developments. Variety of contemporary styles, experimentation, and performance practice in recent music emphasized. Recorded examples. Prerequisite Courses: MUS 160 Credits: 3

MUS550 Compositional Technology Since 1950 Frequency: D Survey of music since 1950. Emphasis upon main stylistic trends, avant-garde music, electronic music, multi-media, and new younger composers. Musical analysis and composition required of students. Credits: 3

MUS555 Special Topics Workshop Frequency: D Usually summer or other short-term workshops dealing with specific topics, techniques or problems in music theory, analysis, history or literature. Maximum of 6 credits in increments of no more than 3 credits may apply with permission to requirements in categories of theory, history and literature, or electives. Credits: 1-3

MUS565 Special Topics Seminar Frequency: D Presentation and investigation of a specific but not regularly scheduled topic of current need or interest, including choral conducting and analysis of choral scores. Course may be repeated to a maximum of 6 credits (in different topics) and may apply with permission to requirements in categories of theory, history and literature, or electives. Credits: 1-3

MUS566 Advanced Choral Conducting/Analysis of History Styles Frequency: D Advanced choral conducting techniques and analysis of choral scores. Students will conduct in class from choral repertoire which will be chosen from representative works of the important style periods in music history, including Gregorian Chant, the Middle Ages, Renaissance, Baroque, Classical, Romantic, and a variety of twentieth century styles. Some class time will also be devoted to presentation and discussion of appropriate choral literature of high quality in the school curriculum. Prerequisite Courses: MUS 222 and MUS 224 and MUS 232 Credits: 3

MUS575 Music and Computer Multimedia Frequency: A A course focusing on the integration of music (digital audio and MIDI) into a variety of computer-based multimedia environments including Hypercard, Director, Adobe Premiere, and others. Music development tools will include many recent production and editing applications including: Digital Performer, Deck, Alchemy, and Sound Designer. Credits: 3

MUS576 Audio and Desktop Multimedia Frequency: B Course designed for Media Arts Sound Production majors and other students with a strong interest and background in composition, multimedia, audio and MIDI. A project-oriented course which focuses on audio design, analysis, and integration as it applies to multimedia authoring, motion video, and web content creation. Prerequisite Courses: MUS 291 Credits: 3

MUS590-591 Special Studies Frequency: D Studies not othewise available as regular course offerings and relevant to student's program or career plans, pursued in independent, directed, or tutorial manner. Student must submit proposal for approval, format available in the School of Music office. Student must also secure agreement of faculty member to sponsor study. Maximum of 6 credits of any combination of MUS and MUED may be earned this way in increments of no more than 3 credits. Credits: 1-3

MUS592-593 Graduate Performance Major Frequency: A Two semesters of advanced applied instruction for candidates for Master of Music in Performance degree culminating in a public recital. Credits: 3 MUS601-604 Applied Music Minor Frequency: A Half-hour lessons in secondary applied instruments. Permission of School of Music. Credits: 1

MUS605-608 Applied Music Major I Frequency: A Hour lessons in major applied instruments. Permission of School of Music. Credits: 2

MUS609 Composition Frequency: A Advanced free composition for graduate study, concentrating on individual creative musical inclinations of each student. Seminar and private study of 20th century creative concepts. Prerequisite Courses: MUS 438 or MUS 439 Credits: 3

MUS610 Composition Frequency: A Advanced free composition for graduate study, concentrating on individual creative musical inclinations of each student. Seminar and private study of 20th century creative concepts. Prerequisite Courses: MUS 438 or MUS 439 and MUS 609 Credits: 3

MUS61 1 Composition Frequency: D Continuation of advanced composition pursuing mature, professional creative expression. Prerequisite Courses: MUS 610 Credits: 3

MUS612 Composition Frequency: D Continuation of advanced composition pursuing mature, professional creative expression. Prerequisite Courses: MUS 610 and MUS 611 Credits: 3

MUS614 The Pedogogy of Music Theory Frequency: D

Designed to provide the necessary background and practical instruction in the art of teaching music theory and aural skills acquisition. Students will engage in a critical evaluation of the philosophies, materials, curricula, and strategies essential to teaching music theory. The course provides pedogogical training geared toward music theory teaching of students at the K-12 and college levels and in the context of the classroom, rehearsal, and individual applied lesson. Credits: 3

MUS615 Graduate Diction for Singers Frequency: D The purpose of this course is to review and expand the knowledge of the International Phonetic Alphabet, the recognized tool for pronunciation in the world of singing, and to address the rules that govern proper articulation and pronunciation of English, Italian, German, and French in both spoken and sung forms of these languages. In addition, students will learn to transcribe written poetic texts into the International Phonetic Alphabet. Credits: 3

MUS624 Analytic Techniques Frequency: D The application of analytical methods, including Schenkerian reductive analysis, to Western tonal music since the latter 17th century. Includes the study of musical forms in Western music and entails a significant prose writing component. Credits: 3

MUS665 Advanced Choral Conduction and Analysis Frequency: D Advanced choral conducting techniques and analysis of choral scores. Students will conduct in class from choral repertoire which will be chosen from representative works of the important style periods in music history, including Gregorian Chant, the Middle Ages, Renaissance, Baroque, Classical, Romantic, and a variety of twentieth century styles. Some class time will also be devoted to presentation and discussion of appropriate choral literature of high quality in the school curriculum. Students should have completed undergraduate fundamentals of conducting classes and all undergraduate theory courses. Credits: 3

MUS666 Choral Literature Frequency: D Students will read and analyze, in class, a variety of choral repertoire, deemed by the instructor to be of the highest quality. Literature will be chosen from representative works of the important style periods in music history, from the Renaissance to the twentieth century. Emphasis will be given to literature that is especially appropriate for junior and senior high school choral programs. Credits: 3

MUS692-693 Graduate Performance Major Frequency: A Two semesters of advanced applied instruction for candidates for Master of Music in Performance degree culminating in a public performance. Credits: 3 MUS694 Recital Frequency: A Concurrently with MUS 693 or in any subsequent semester, candidate for degree in Performance presents public recital under supervision of major instructor and two other instructors from same area. Credits: 3

MUS695 Thesis Frequency: D Candidate for degree in Theory-Composition engages in advanced work culminating in thesis project or composition/arrangement. Credits: 1-3

Music Therapy (MUTY)

MUTY115 Introduction to Music Therapy

Frequency: B A basic orientation and general introduction to music therapy as a creative arts discipline. Lectures, classroom discussion, films and classroom demonstrations are used to introduce students to the target population/disabilities. Credits: 2

MUTY240 Music for Children with Disabilities Frequency: B A basic introduction to the child with disabilities, state and federal guidelines applicable to music in special education and how music can be used as a teaching method. Lecture, discussion, class demonstration. Credits: 2

MUTY270 Social Instruments Frequency: A Group applied instruction on a variety of social/recreational non-traditional instruments (e.g. autoharp, dulcimer, recorder, ukulele, percussion instruments, tone bells). Designed to develop a playing competence sufficient to accompany general music classes/music therapy clinical sessions. Credits: 2

MUTY300 Orientation Clinic Practicum Frequency: B An introduction to the clinical experience as a beginning process toward becoming a music therapist. Designed to develop skills in observation, behavioral objectives and therapeutic techniques. A look at the professional aspect of music therapy, i.e., Code of Ethics, Standards of Clinical Practice, etc. Assigned observations, development of music skills and readings are part of class requirements. Prerequisite Courses: MUTY 115 Credits: 1

MUTY301 Seminar in Music Therapy Frequency: A Designed to support the clinical practicum experience. Fall semester seminars correspond to clinical population; spring semester seminars involve psychological approaches to music therapy. Prerequisite Courses: MUTY 115 and MUTY 300 Credits: 1

MUTY302 Practicum in Music Therapy Frequency: A Designed to provide structured experience in a clinical setting under the supervision of a music therapist. Students work two hours per week, on a two-semester basis, with children, adolescents, adults, and elderly in area clinical facilities. Written monthly and semester reports are part of the clinical requirements. Credits: 0

MUTY345 Foundations of Music Therapy Frequency: B The development of foundational knowledge and repertoire of music therapy experiences in singing, playing instruments, movement, listening, and creating. Credits: 3

MUTY401 Principles of Music Therapy Frequency: B A synthesis of all previous classroom and clinical experiences in the form of the senior portfolio. Students develop a major work designed to produce administrative/management skills required for entry level music therapists. Development in scheduling, budgets, treatment programs, assessment, evaluation, etc. are major areas of concern. Credits: 3

MUTY414 Psychology of Music Frequency: B Science of psychology related to fundamentals of musical talent. The musical mind, sensory capacities, individual differences and psychology of listening. An introduction to musical acoustics. Credits: 3 MUTY415 Methods/Materials for Music Therapy Frequency: B Available materials for music therapy application in all target populations. A look at different

methods used in music therapy practice, i.e., Off Schulwerk, Nordolf-Robbins, Improvisation, etc. Students prepare their own resource materials as part of class requirements. Prerequisite Courses: MUN 115 Credits: 2 MUTY422 Psychological Research in Music Frequency: C Students propose, carry out, and write an experimental study in the area of music therapy or music education. Class and individual projects are required. Credits: 3 MUTY450 Internship in Music Therapy Frequency: A Six to nine-month clinical internship in AMTA-approved

Physical Education (PHED)

facility.

Credits: 0

PHED100 Champs/Lifeskills Frequency: D This course is based on the National Collegiate Athletic Association (NCAA) CHAMPS/Lifeskills Program. It is designed to assist first year student athletes with a variety of lifeskills components, including commitment, personal development, career development, service commitment and athletics commitment. Credits: 2

PHED101 Aqua-Aerobics Frequency: A Course introduces a sequence of water exercises that enhances the student's aerobic fitness. Credits: 1

PHED102 Learn to Swim Frequency: A Course emphasizes the basic skills needed to learn to swim. The course is designed for non-swimmers. Credits: 1

PHED103 Intermediate Swimming Frequency: A Course emphasizes the intermediate skills needed to develop individual strokes. Credits: 1

PHED104 Advanced Swimming Frequency: A Course emphasizes advanced stroke development and training techniques involved in advanced swimming. Credits: 1

PHED105 Swimming and Conditioning Frequency: A Course educates students about how to use the swimming pool to develop and maintain a sensible level of physical fitness. Water exercises and technique is taught. Credits: 1

PHED106 Lifeguard Training Frequency: B Course emphasizes the skills and techniques needed to gain lifeguard certification. Lifeguard certification is possible at the end of this course. Credits: 2 PHED107 WSI-Water Safety Instructor Frequency: B Course follows the Red Cross guidelines to train Water Safety instructors. WSI is possible at the completion of this course. Credits: 2

PHED108 Basic Scuba Diving Frequency: A Course emphasizes the basic skills involved in learning how to SCUBA dive. Classroom sessions and open water dives are planned as part of this class. Credits: 2

PHED109 Advanced Scuba Diving Frequency: A Course introduces the advanced techniques of SCUBA diving needed for open water diving. Prerequisite Course: PHED 108 or equivalent. Credits: I

PHED113 Basic Bowling Frequency: A Introduces students to the fundamentals of bowling including scoring, approaches and strategies needed to attain basic competencies as a beginning bowler. Credits: 1

PHED116 Golf - Basic Frequency: B Course introduces the student to the skills and rules needed to develop introductory golf proficiency. Credits: 1

PHED117 Running and Conditioning Frequency: A Course teaches the student the basics of aerobic conditioning as a means of developing physical fitness. Credits: 1

PHED120 Ice Skating - Basic Frequency: A Student will learn the basic skills need to begin ice skating. Balance, footwork, turning and stopping are emphasized in this course. Credits: 1

PHED121 Ice Skating -Intermediate Frequency: A Course emphasizes in-depth skills that were introduced in basic ice skating. Credits: 1

PHED122 Figure Skating Frequency: A Introduces the intermediate skater to the basics of figure skating, power crossovers; movement forward and backwards, 3 turns, mohawks, single jumps and spins. Course will also provide the advanced figure skater an opportunity to continue training in double and triple jumps, combination spins and connecting footwork. Prerequisite Courses: PHED 120 Credits: 1 PHED124 Basic Aerobics Frequency: A Course is designed to introduce the student to low and high impact aerobic exercise. Credits: 2

PHED125 Step Aerobics Frequency: A Course introduces the student to aerobic exercise through a step aerobics technique. Credits: 2

PHED126 Body Sculpting (Women) Frequency: A Course introduces the student to strength training, body toning and the basics of aerobic exercise. The development of individual programs will be directed at the fitness needs of women. Credits: 2

PHED127 Yoga Frequency: A An introduction to "Hatha" yoga. Students will learn basic postures (asanas) as well as breathing techniques (pranayma) and beginning meditation practices. Students will work to increase flexibility, develop balance and deepen respiration and mind-body awareness. Credits: 2

PHED128 Racquetball - Basic Frequency: D The basic skills, rules and techniques of scoring are taught in this course. Credits: 1

PHED129 Racquetball -Intermediate Frequency: D Strategies of singles and doubles play are emphasized in this course. Credits: 1

PHED131 Self-Defense Frequency: A Course emphasizes the basic techniques needed to defend oneself. Stances and defensive strategies are emphasized. Credits: I

PHED132 Skiing Frequency: A The basic techniques needed to ski are taught. This course is designed to meet the needs of beginners as well as intermediate and advanced skiers. Credits: I

PHED134 Tennis - Basic Frequency: A Course emphasizes the rules, grips, stances and elementary stroke development for the beginning player. Credits: 1

PHED135 Tennis - Intermediate Frequency: A Course introduces in-depth tennis skills and advanced techniques and strategies for singles and doubles play. Credits: 1 PHED138 Volleyball Frequency: A Course introduces basic volleyball skills necessary for the student interested in intramural or recreational play. Credits: 1

PHED139 Weight Training Frequency: A Course introduces the student to basic techniques of weight training and body toning. Emphasis is placed on learning specific exercises and training techniques necessary for establishing an effective weight training program. Credits: 2

PHED180 Assistant Scuba Instructor Frequency: A This course will educate people who have basic aquatic skills and basic scuba certification to teach basic skills associated with scuba diving. The skills taught include skin diving skills, pool safety, equipment inspection, buddy systems, air emergencies, communications, and open water diving. Prerequisite Courses: PHED 108 Credits: 2 PHED199 Special Topics Frequency: D Special topics in physical education. Credits: 1-6 PHED200 Physiology of Sport/Exercise Frequency: D A comprehensive overview of the field without being overwhelming. It provides a solid foundation of basic physiology from which to better interpret and understand sport and exercise physiology. It reviews the major body systems and examines the body's acute response to exercise and its chronic response to training. Students will learn how the environment affects these

responses. The course examines various approaches used to optimize performance and focuses on unique concerns of special populations involved in physical activity. It also examines the importance of physical activity to lifelong health. Credits: 3

PHED210 Philosophy/Principles and Organization of Athletics in Education Frequency: A The philosophy, principles and organization of interscholastic athletics are presented in this course Credits: 3 PHED311 The Psychology of Coaching Frequency: B A course for understanding the application ot basic psychological principles to the coaching of the individual athlete, or teams, in the competitive environment. One of several courses designed to meet state mandate for interscholastic coaching. Credits: 2

PHED315 Prevention and Cafe of Athletic Injuries Frequency: B Study of prevention and recognition of injuries commonly associated with athletic competition. Includes the study of anatomy and physiology involved in injuries. One of several courses designed to meet state mandate for interscholastic coaching. Prerequisite Courses: HLTH 115 Credits: 3

PHED316 Athletic Training Internship Frequency: A Develops the basic competencies of students interested in athletic training. Areas included in the internship will include preventive taping, injury prevention, the basics of rehabilitation, coverage of home events, and basic functioning of a training room. Prerequisite Courses: PHED 315 Credits: 3

PHED321 Coaching Techniques Frequency: A

A course designed to introduce the prospective coach to the basic skills, strategies and coaching techniques required in organizing a particular sport. While this course is one of several courses designed to meet state mandates for interscholastic coaching, the student is expected to have completed all other courses in the mandate before enrolling in PHED 321 or attain the permission of the instructor. Credits: 2

PHED400 Sports Studies Internship Frequency: A

Working under supervision in a community setting. The internship will emphasize theory, knowledge and skills needed when working with and within groups and organizations. Student will be expected to complete 40 clock hours of direct service to individuals, groups or organizations for each credit hour awarded. A Learning Contract encompassing job requirements, learning objectives and methods will be utilized in student's evaluation Credits: 1-6

PHED499 Independent Study Frequency: A The study of a particular topic related to Physical Education and Recreation. Periodic meetings with an appropriate instructor will be scheduled. The topic may encompass individual research or a practical experience. Credits: 1-3

Philosophy (PHIL)

105 Philosophical Ideas

Frequency: B Introduction to the central ideas of prominent Western philosophers, earliest times to present. Lecture class. Credits: 3

PHIL106 Critical Thinking Frequency: C This course concerns the study and practice of critical thinking. Through analysis of dramatic examples of the critical thinking skills necessary for effective deliberation, it hones analytic skills and encourages careful thought. The primary feature of the course is the consideration of an abundance of exercises, examples, and applications from everyday life, ranging from the courtroom to political debate and from advertising to current social issues. Credits: 3

PHIL115 Philosophical Inquiry Frequency: A Discussion of some central problems of philosophy such as existence of God, nature of reality, conditions of knowledge, question of free will versus determinism, and foundations of morality. How should one live? What makes society just? Is there a Supreme Being? Can we survive death? Such questions are universal and fundamental to all humanity, although various cultures offer radically different solutions. Discussion class. Credits: 3

PHIL116 Introduction to Deductive Logic Frequency: B The development of formal systems of propositional and predicate logic for the evaluation of reasoning, including truth table techniques to distinguish valid from fallacious inferences, symbolizing English in logical notation, proofs in propositional logic, predicate logic with quantifiers. Credits: 3 PHIL218 Introduction to Ethics Frequency: B

Ethics is the study of morality. It is central to issues relating to what persons should believe and how they should act. The investigation of morality occurs via an analysis of metaethics (the fundamental status of moral judgments), normative ethics (the nature of a right action and the nature of a virtuous person), and applied ethics (the application of normative ethics to particular moral issues). These areas are explored through the discussion of such issues as: Is morality relative to culture? Is morality independent of religion? Do the ends of one's action justify the means? What does it mean to be a virtuous person? Credits: 3

PHIL222 The Greek Way Frequency: C Introduces students to classical Greek philosophy in the context of the historical, cultural, social, and political conditions of ancient Greece. Part of the course is devoted to a careful examination of the social context of ancient Greece and to the sources and manifestations of Greek values: mythological, religious, literary, educational, and aesthetic. Credits: 3

PHIL224 Medieval Thought Frequency: C Islamic, Judaic, and Latin-Christian thought of the Middle Ages. The course examines the significance of the Greco-Roman tradition to medieval hopes and fears, and addresses problems prevalent in all three cultures: the relationship between faith and reason; the nature of the Supreme Being; the connection between theology and art, politics, and metaphysics; and the origin and cause of the world. Credits: 3

PHIL226 The Age of Reason and Its Legacy

Frequency: C The nature of reality, knowledge, and experience as portrayed by the Rationalists (Descartes, Leibniz, and Spinoza) and the Empiricists (Locke, Berkeley, and Hume). The legacy of these thinkers as reflected in standard notions of causality, truth, proof, and argument will be explored in relation to contemporary thinkers. Credits: 3

PHIL228 American Philosophy Frequency: C The political philosophy, epistemology, scientific method, and criteria of truth, argument, and reason which distinctively characterize the Founding Fathers, the Trancendentalists, and the Pragmatists. Includes consideration of the question: Is there something distinctively American about American philosophy? Credits: 3

PHIL238 Philosophy of Religion Frequency: B Careful examination of classical and contemporary issues such as the nature of religious experience, the relationship of faith and reason, arguments for and against the existence of God, the significance of the problem of evil, knowing God without arguments, religious language, life after death, miracles, religious ethics, and the differences between Eastern and Western theisms. Credits: 3

PHIL258 Life and Death Frequency: C

The class explores fundamental issues relating to life and death. In particular, it looks at what constitutes life and what, if anything, makes life good. It also investigates what constitutes death and whether death is bad. Using these notions, the class then analyzes particular moral issues surrounding life and death, such as the moral status of the following practices: abortion, suicide, euthanasia, capital punishment, and war. Credits: 3

PHIL262 Crime and Punishment Frequency: C This course investigates the criminal justice system and the limits of state coercion. May the

state coerce persons only to prevent some persons from harming others? May it do so to protect persons from harming themselves or to protect society's moral fabric? We will then examine the justification of punishment. Is punishment justified because it reforms offenders, because offenders deserve punishment, or because punishment deters other potential defenders? Finally, we explore contemporary moral issues such as whether the state should criminalize recreational drug use, hate crimes, or blackmail. Credits: 3

PHIL265 Social and Political Philosophy

Frequency: C The proper form of human association, the just balance of economic, political, and social power, and the nature of the relationship between the state and the individual are explored in the works of prominent historical and contemporary theorists. The course examines the origins of human communities and the nature of social commitment as viewed by major political philosophies such as classical republicanism, libertarianism, liberalism, socialism, and communism. Credits: 3

DESCRIPTIONS

PHIL313 Sex and Love Frequency: B Addresses three specific areas of sex and love, and includes cross-cultural components. First, sexual ethics: Which kinds of sexual activity are morally permissible under what sort of circumstances? Must morally permissible sex be based on love? What is good sex? Second, the politics of sex: Are versions of proper sexuality used as mechanisms to oppress women and homosexuals? Third, the ideals of love: What are the different kinds of love? Why should we be concerned with analyzing love? Credits: 3

PHIL317 Philosophy of Science Frequency: C An examination of the basic concepts and methods of the sciences through the study of topics such as the nature of scientific explanation, the status of laws of nature, the relation between observation and theory, and methods of confirming or refuting hypotheses. Other topics might include causality, scientific realism, scientific revolutions, and the distinction between science and non-science. Credits: 3

PHII 330 Libertarianism Frequency: C Libertarianism holds that the only proper function of the state is to protect its citizens from acts of force, fraud, or theft. We will explore libertarianism and evaluate the arguments for and against it. We will examine such issues as: whether the state has authority over persons, whether distributive justice allows the state to redistribute wealth, whether rights are inviolable, whether and to what extent property rights should be respected, and whether antidiscrimination laws are justified. , Credits: 3

PHIL338 Marxist Thought Frequency: C The central themes of the tradition: its view of history, economics, the nature of political struggle, the status of law and morality, and the effects of our material living conditions on our forms of thought. The relevance of Marxism to revolutionary political movements is explored in the works of thinkers such as Lenin, Stalin, Trotsky, Luxemburg, Gramsci. and Marcuse. Credits: 3

COURSE

PHIL270 Philosophy of the Arts

Philosophical problems in the arts.

Nature of art and aesthetic value;

aesthetic attitude and experience;

evaluation of works of art among

specific to music, film, literature,

painting, and sculpture are also

Existentialism is a philosophical

realization of living in a broken,

ambiguous, dislocated world into

condemned yet abandoned and

free. The course examines the

Kierkegaard, Dostoevsky, Nietzsche, Kafka, Heidegger,

Students confront the main

living, meaning, love,

Credits: 3

Frequency: D

Logic

systems

Credits: 3

Frequency: D

responsibility.

and Principles

Frequency: B

Credits: 3

Sartre, Camus, and de Beauvoir.

themes of life: anxiety, authentic

PHIL301 intermediate Deductive

system of logic with relations and

definite descriptions. Other topics

may include modal logic (the logic

multiple quantifiers, identity and

of possibility and necessity), set

theory, or results concerning the

Prerequisite Course: PHIL 116

scope and limits of logical

PHIL310 Business Ethics

Careful examination of moral

issues arising in business contexts such as the duty to tell the truth,

the profit motive, the relationship

the public interest, the rights and

employers, the responsibilities and

consumers, the respective roles of

business and government, and

PHIL312 Current Moral Issues

Moral issues of significance today

such as abortion, euthanasia, sexual ethics, affirmative action,

animal rights, torture, and war. In

exploring answers to these issues

introduction to moral principles

produced by traditional theories

Kantianism, and the social

such as natural law, utilitarianism,

the course includes an

contract tradition.

Credits: 3

between private ownership and

duties of employees and

liabilities of businesses to

business trends and social

relationships, God, and death.

The development of a formal

description, interpretation, and

topics considered. Problems

PHIL274 Existentialism

which we are thrown and

work of authors such as

Frequency: D

discussed.

Credits: 3

Frequency: D

165

PHIL345 The Meaning of Life Frequency: B This course addresses the most fundamental questions of human existence in theistic, humanistic, and practical dimensions. Does life as a whole have inherent meaning? Does human life in particular have inherent meaning? If there is no God does that imply that life has no inherent meaning? Even if life has no inherent meaning, can life have meaning created by those who live it? If there is no inherent meaning of life, why do I exist? Does mortality rob human life of any significance it might have? Credits: 3

PHIL346 Human Happiness Frequency: C

A critical evaluation of major theories of happiness. If we are rational and actively loving, what should we teach our children about more durable forms of life satisfaction? What is success? What is happiness? Is happiness the greatest good? Are all meaningful lives happy? Are all happy lives meaningful lives? What are the sources or conditions of happiness? What is the relationship between heroic, meaningful, and happy lives? Credits: 3

PHIL351 Metaphysics: Reality and Existence Frequency: C An examination of the fundamental categories of reality, such as existence, substance, property, identity, space, time, event, causation, necessity, essence, free will and mind. The philosophical questions in which these categories play a role will also be discussed; for example, Is free will possible in a deterministic world? How can something change its properties over time and still remain the very same thing? Prerequisite: 3 credit hours in Philosophy. Credits: 3

PHIL353 Theory of Knowledge Frequency: C Inquiry into the nature of human knowledge and related concepts such as truth, belief and epistemic justification. We explore knowledge from experience and a priori knowledge. We address theories of justification such as foundationalism, coherentism and reliabilism. We also confront problems posed by Skepticism for the scope of human knowledge, especially knowledge about the external world. Prerequisite: 3 credit hours in Philosophy Credits: 3

PHIL362 Philosophy of Law Frequency: C This course explores the nature of law and judicial decision-making. Is law simply a union of rules, a social practice, or an attempt to apply justice to interpersonal disputes? We will also examine the content and interpretation of statutes. Should the interpretation take into account the statute's plain meaning? The intent of the legislature that voted for it? Considerations of justice? We will then discuss the role of judges in interpreting both statutes and common law (judge-made law). Credits: 3

PHIL364 Justice, Law, and Economics Frequency: D

The civil law system adjudicates contractual disputes and disputes involving claims to compensation for injury. This course begins with a discussion of the justification of the system. The class will investigate whether the system is justified by a concern for economic efficiency, justice or both. The class will look at economic rules that relate to the civil laws, such as the rules relating to breach of contract, automobile accidents, liability for defective products, and pollution control. The class will also explore whether justice allows economic factors to be considered. Credits: 3

PHIL369 Topics in Philosophy Frequency: D Special topics in Philosophy. Variable-content course which may be taken more than once for credit. An in-depth study beyond the standard curriculum. Credits: 1-3

PHIL430 Philosophy of Mind Frequency: C Philosophical accounts of the mind and its relation to the world. Topics include the mind-body problem, the intentionality (or "aboutness") of thought, the nature of mental content, consciousness, introspection and knowledge of other minds. We consider theories on these topics, such as dualism, behaviorism, type-physicalism, functionalism and eliminativism. Prerequisite: 3 credit hours in Philosophy. Credits: 3 PHIL432 The Age of Analysis: Philosophy Since 1900 Frequency: C Major currents and themes in 20th century analytic philosophy. Attention devoted to the work of such philosophers as Russell, Moore, Wittgenstein, Quine and others. A critical examination of analytic approaches to the philosophy of language, metaphysics, epistemology and other traditional areas of philosophy. Likely topics are theories of meaning and reference, logical atomism, logical positivism, ordinary language philosophy, and recent debates concerning the nature of knowledge, meaning and necessity. Prerequisite: 3 credit hours in Philosophy Credits: 3

PHIL441 Philosophy of Language and Semantics Frequency: D Exploration into the nature of language through the examination of such topics as meaning, reference, truth, use, and convention. Contemporary theories about the semantic contribution to sentence meaning made by proper names and definite descriptions; the difference between linguistic and other forms of communication and representation; and the relations between language, thought and reality. Prerequisite: 3 credit hours in Philosophy

Credits: 3

PHIL446-449 Selected Problems Frequency: C Advanced special topics and problems not treated thoroughly in other courses. Past examples: Environmental Ethics, Philosophy of War, Philosophy of History, Rationality, Renaissance Philosophy, Early Modern Philosophy of Religion. Current topics specified in Course Offerings Bulletin. Credits: 3

PHIL460-469 Major Philosophers Frequency: C Intensive study of thought of a major philosopher of historical or contemporary significance. Past examples: Socrates, Plato, Hume, Kant, Nietzsche, Wittgenstein, Locke, Berkeley, Russell. Current topics specified in Course Offerings Bulletin. Credits: 3

PHIL481 Directed Study Frequency: A Student, with faculty member's guidance, will study a topic not currently offered, or will engage in studies in greater depth than current course offerings permit. Permission of instructor required. Credits: 1-3 PHIL485 Independent Study Frequency: A Student will pursue a course of independent study and present evidence of accomplishment at end of semester. Restricted to Philosophy majors; permission of instructor required. Credits: 1-3

Physics (PHYS)

PHYS101 Contemporary Physics for Non-Science Majors Frequency: A (Designed for students majoring in humanities and social sciences.) Non-mathematical survey of selected areas of contemporary science, emphasis on ideas and concepts of physics, including its role in society. Credits: 3

PHYS104 The Big Bang Frequency: D Non-mathematical presentation of selected topics regarding the latest theories of the formation of the universe including ideas from special and general relativity. Credits: 1

PHYS107 Particles and Waves Frequency: D Unifying principles of particles and waves viewed from classical and modern physics. Credits: I

PHYSIII Introduction to Physical Sciences Frequency: D An inquiry and algebra based approach to the major topics of physics: motion, conservation laws, heat, electricity, optics, and introductory atomic physics. Credits: 3

PHYS121 College Physics I Frequency: B A non-calculus lecture sequence: motion, dynamics, conservation theorems, heat. Students requiring a laboratory component should include PHYS 123. Prerequisite Courses: MATH 105 or NYS Regents Course III Credits: 3

PHYS122 College Physics I1 Frequency: B A non-calculus lecture sequence: wave motion, sound, electromagnetic fields, circuits, optics, quantum phenomena. Students requiring a laboratory component should include PHYS 124. Prerequisite Course: PHYS 121 Credits: 3

PHYS123 College Physics Lab I Frequency: B One three-hour laboratory session per week treating topics covered in PHYS 121. Co-requisite Courses: PHYS 121 Credits: 1 PHYS124 College Physics I1 Lab Frequency: B One three-hour laboratory session per week treating topics covered in PHYS 122. Co-requisite Courses: PHYS 122 Credits: 1

PHYS200 Engineering Graphics Frequency: D Introduction to tools, language, and procedures basic to training of an engineering draftsperson. Emphasis on drafting techniques, two-dimensional and isometric representation. Credits: 2

PHYS205 Science and Civilization Frequency: B A survey of the major scientific discoveries and the scientists behind these discoveries. The course will discuss historical developments from Ptolemy to Kirby (the co-inventor of the integrated circuit chip). Credits: 3

PHYS206 Genesis of the Universe Frequency: D A non-mathematical course covering historical, philosophical, theological and scientific aspects concerning the genesis of the universe. Credits: 3

PHYS230 University Physics I Frequency: B Calculus-based lecture sequence for science and mathematics majors who have completed a course or courses in University Calculus or the equivalent. Kinematics, dynamics, gravitation. A recitation is included. Prerequisite Courses: MATH 122 Co-requisite Courses: PHYS 232 Credits: 4

PHYS231 University Physics I1 Frequency: B Calculus-based lecture sequence for science and mathematics majors who have completed a course or courses in University Calculus or the equivalent Electricity and magnetism. A recitation is included. Prerequisite Courses: MATH 123 and PHYS 230 Co-requisite Courses: PHYS 233 Credits: 4 PHYS232 University Physics I Lab Frequency: B One three-hour laboratory session per week treating topics covered in PHYS 230

Co-requisite Courses: PHYS 230 Credits: 1

PHYS233 University Physics II Lab

Frequency: B

One three-hour laboratory session per week treating topics covered in PHYS 231. Co-requisite Courses: PHYS 231

Credits: 1

PHYS234 Modern Physics Frequency: B Special relativity, wave motion, basic concepts of quantum mechanics, atomic structure, solid state, and nuclear physics, including a weekly three hour lab. Prerequisite Courses: PHYS 231 Credits: 4

PHYS240 Seminar: Wave Motion in Physics

Frequency: D This course will be devoted to the study of waves and its applications in different fields of physics. The principal objective is to develop an understanding of basic wave concepts and of their relations with one another. Readings and discussions on topics such as free and forced oscillations, superposition principle, traveling and standing waves, modulations, pulses, wave packets, bandwidth, coherence time and polarization, will serve to reach the proposed goal. Applications of different physical systems as water waves, sound waves, light waves, transmission lines, quantum waves, etc. will be illustrated through interesting examples. Prerequisite Course: PHYS 234 Credits: 1

PHYS311 Acoustics I Frequency: B Elements of physics bearing directly on production and assimilation of musical tones, waves motion, resonance, complex waves, physiology of hearing, musical scales, simple acoustical models of musical instruments. Prerequisite Courses: PHYS 121 or PHYS 230 Credits: 3

PHYS312 Acoustics II Frequency: D Psychoacoustics and architectural acoustics. A study of the mechanics and neurological foundations of the perception of pitch, loudness, timbre, and direction, followed by a contrasting study of the behavior, measurement, and evaluation of sound and music in a variety of environments, utilizing both objective techniques and the psychoacoustical insights gained from the first part of the course. Prerequisite Courses: PHYS 311 Credits: 3

PHYS318 Basic Electronics Frequency: B Introduction to electronic circuits, devices, and systems with practical applications to recording engineering and biomedical instrumentation. Non-majors only. Prerequisite Courses: MATH 120 or MATH 122, and PHYS 122 or PHYS 231 Credits: 3

PHYS321 Engineering Mechanics Frequency: B A calculus treatment of applied mechanics including fundamentals of mechanics, vector algebra, equivalent force/moment systems, distributed forces: centroids and center of gravity, equilibrium of particles and rigid bodies, trusses, frames, internal forces in structural members, Coulomb friction, second moments of area and moment of inertia, method of virtual work, and kinematics of particles and rigid bodies. Prerequisite Courses: PHYS 230 Credits: 4

PHYS322 Engineering Mechanics II Frequency: B Continuation of PHYS 321 including stress and strain tensors, mechanical properties of solids, multidimensional stress-strain relations, section forces in beams, stresses in beams, deflection of beams, torsion, stresses and strain relations at a point, Mohr's circle, energy methods, elastic stability, and vibrations. Prerequisite Courses: PHYS 321 Credits: 4

PHYS323 Circuit Analysis I Frequency: B A development of network analysis including Ohm's and Kirchhoff's laws, operational amplifiers, nodal analysis, network theorems, trees and links, energy-storage elements, RC and RL circuits, and second order circuits. Prerequisite Courses: PHYS 231 Credits: 3

PHYS324 Circuit Analysis II Frequency: B Continuation of PHYS 323 including sinusoidal excitation and phasors, AC steady state analysis, three-phase circuits, complex frequency and network functions, frequency response, transformers, Fourier and Laplace transforms. Prerequisite Courses: PHYS 323 Credits: 3

PHYS325 Electronics Frequency: C Course treats analog electronics. AC and DC circuits and laws of network analysis. Elements of semiconductor physics. Diodes, rectifiers, filters and regulated power supplies. Bipolar and FET transistors and transistor amplifier circuits. Feedback and operational amplifiers. Discrete and integrated circuit oscillators, multivibrators, and waveshaping. Co-requisite Courses: PHYS 327 Credits: 3

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PHYS326 Digital Logic Frequency: B TTL characteristics, Boolean algebra, logic functions, and minimization procedures. Logic gates and implementation. Design of combinational and sequential circuits. Flipflops, counters, shift registers, and arithmetic circuits. Analog to digital and digital to analog conversion. Solid state memories and simple processors. Co-requisite Courses: PHYS 328 Credits: 3

PHYS327 Electronics Lab Frequency: C Laboratory to accompany and supplement PHYS 325. Co-requisite Courses: PHYS 325 Credits: 1

PHYS328 Digital Lab Frequency: B Laboratory to accompany and supplement PH 326. Co-requisite Courses: PHYS 326 Credits: 1

PHYS330 Thermodynamics Frequency: B Concepts of temperature, laws of thermodynamics, entropy, thermodynamic relations and potentials, processes, properties and cycles, applications to physical systems, introduction to statistical mechanics. MATH 223 is recommended (may be taken concurrently). Prerequisite Courses: PHYS 230 Credits: 3

PHYS331 Theoretical Mechanics Frequency: B Vector-tensor approach to classical mechanics including kinematics, dynamics, oscillations, Lagrange's and Hamilton's equations, transformations, central force, and rigid body motion. Prerequisite Courses: MATH 224 and PHYS 230 Credits: 3

PHYS333 Electricity and Magnetism Frequency: B Mathematical theory of electrostatics and electrostatics and electromagnetism employing vector calculus. Applications of Maxwell's equations. Prerequisite Courses: PHYS 425 and PHYS 231 Credits: 3

PHYS340 Optics Frequency: C An introduction to geometrical, physical, and modern optics. Prerequisite Courses: PHYS 231 Co-requisite: PHYS 341 Credits: 3

PHYS341 Optics Laboratory Frequency: C Laboratory to accompany and supplement PHYS 340. Co-requisite Courses: PHYS 340 Credits: 1 PHYS400 Undergraduate Seminar Frequency: B Presentations by students discussing topics in physics. Counted once for the physics credit hour requirements. Credits: 1

PHYS401 Special Relativity Frequency: D Tensor calculus approach to relativistic kinematics, dynamics, optics, electrodynamics, and selected applied topics. Prerequisite Courses: PHYS 234 Credits: 3

PHYS425 Mathematical Physics I Frequency: 6 Applied methods including Cartesian and noncartesian vector and tensor analysis, eigenvectors and eigenvalues, infinite series, complex functions. Prerequisite Courses: MATH 224 Credits: 3 PHYS426 Mathematical Physics II Frequency: B Applied methods including partial differential equations of physics, boundary value problems, Sturm-Liouville theory and eigenfunctions, special functions, Green's functions. Prerequisite Courses: PHYS 425 credits: 3

PHYS431 Introduction to Quantum Mechanics Frequency: B Concept of wave-particle duality, Schroedinger's wave equation with applications to potential problems, to the hydrogen atom, and to atomic spectra; perturbation theory, and spin-orbit interaction. Prerequisite Courses: PHYS 234 Co-requisite Courses: PHYS 425 Credits: 3

PHYS434 Solid State Physics Frequency: D Crystal structure, conduction theory, binding and energy levels and other properties of conductors, semiconductors, dielectrics, and magnetics. Prerequisite Courses: PHYS 431 Credits: 3

PHYS444 Seminar: Quantum Information and Measurement Frequency: D Readings and discussion on the measurement process in quantum mechanics. Entangled states, Einstein-Podolsky-Rosen paradox, Bell's inequality, quantum encryption and quantum computation. Experimental techniques. Philosophical issues raised by quantum theory. Prerequisite Course: PHYS 431 Credits: 1 PHYS450 X-Ray Techniques Laboratory Frequency: D A study of the production and use of X-rays. Hands-on experience will be gained in the use of Debve Scherrer cameras and theta-two theta scanning diffractometers for crystal lattice determination and identification. Laue cameras for crystal orienting, and topographical cameras for crystal size and defect determination. Depending on student interest, other applications can also be investigated such as the medical use of simple transmission and phase contrast photographs, and the X-ray fluorescence determination of elemental composition. Prerequisite Course: PHYS 234 Credits: 1 PHYS468 Independent Study Frequency: D Independent work on a theoretical or experimental topic under the guidance of a faculty member. Credits: 1-3 PHYS469 Directed Research Frequency: D Theoretical or experimental research under the supervision of a faculty member. Credits: 1-3 PHYS470-479 Special Topics Frequency: A Area not covered in regular courses. Broad range of topics consistent with teaching and research interests of department. Credits: 1-3 PHYS480 Laboratory Supervision in Physics Frequency: A Students enrolled serve as laboratory assistants under faculty supervision. Approval to register must be obtained from department. Three hours of work per week are expected for each hour of credit elected. Course may be repeated for a maximum of 6 hours credit applicable toward fulfillment of Physics or Mathematics-Physics major's supporting course requirements. (A major in Physics or Mathematics-Physics is not a prerequisite.) Credits: 1-3 PHYS490 Honors Thesis Frequency B Research project culminating in a thesis. In most cases a full year of work will be required to complete both project and thesis. Credits: 3 PHYS530 Kinetic Theory and Statistical Mechanics Frequency: D Maxwell-Boltzmann collision theory. H-theorem, transport equation, quantum statistics,

partition functions, equipartition

theorem, applications to

thermodynamic systems,

ergodicity.

Credits: 3

PHYS531 Mathematical Physics I Frequency: D Mathematical methods including eigen-functions and eigenvalues, variational principles, abstract vector spaces, integral equations, Green's functions, partial differential equations of physics. Credits: 3 PHYS532 Mathematical Physics II Frequency: D Mathematical methods including eigenfunctions and eigenvalues, variational principles, abstract vector spaces, integral equations, Green's functions, partial differential equations of physics. Credits: 3 PHYS533 Electromagnetic Theory I Frequency: D Potential theory and boundary value problems, electromagnetic field relations, magnetohydrodynamics, Leinard-Wiechert potentials. Prerequisite Courses: PHYS 531 Credits: 3 PHYS534 Electromagnetic Theory II Frequency: D Potential theory and boundary value problems, electromagnetic field relations. magentohydrodynamics, Leinard-Wiechert potentials. Prerequisite Courses: PHYS 531 Credits: 3 PHYS540 Modern Optics Frequency: D Green's functions and linear theory, spatial filters, geometrical theory and aberrations, interference, diffraction and image formation, matrix and coherence theory, partial polarization, Fourier Methods. Credits: 3 PHYS541 Advanced Dynamics Frequency: D Lagrangian and Hamiltonian methods, variational principles, relativistic mechanics, transformation theory, oscillations, fields. Prerequisite Courses: PHYS 531 Credits: 3 PHYS543 Quantum Mechanics I Frequency: D Solutions to wave equations, approximation methods, time dependent problems, vector spaces, matrix formulation, identical particles, scattering, radiation, second quantization. Prerequisite Courses: PHYS 531 Credits: 3 PHYS544 Quantum Mechanics II Frequency: D Solutions to wave equations, approximation methods, time dependent problems, vector spaces. matrix formulation. identical particles, scattering, radiation, second quantization. Prerequisite Courses: PHYS 531 Credits: 3

reactor theory, instrumentation, control, fuel, shielding, heat transfer, and applications of nuclear reactors. Prerequisite Courses: PHYS 432 Credits: 3 PHYS570 Special Topics Frequency: D Areas not covered in regular courses. Broad range of advanced topics consistent with teaching and research interests of department. Credits: 1-3 PHYS630 Advanced Nuclear Physics Frequency: D Current experimental and theoretical topics including nuclear properties and systematics, nucleon scattering, nuclear forces and structure, reactions, decay processes, nuclear spectroscopy. Prerequisite Courses: PHYS 432 and PHYS 531 Credits: 3 PHYS631 Atomic and Molecular Structure Frequency: D Quantum mechanical treatment of atomic and molecular energy levels including transitions, fine and hyperfine structure, isotopic

PHYS546 Reactor Physics

Nuclear reactions and radiations,

Frequency: D

effects, beam methods, collision and ionization phenomena. Prerequisite Courses: PHYS 543 Credits: 3

PHYS690-691 Research Frequency: D Experimental or theoretical research in physics including a thesis. Credits: 3

Political Science (POLI)

POLI100 Freshman Seminar Frequency: D

The Freshman Seminar in Political Science introduces you to some central aspects of thriving and surviving at Fredonia in academic and social terms and to what is going on in Political Science. It is an opportunity for freshmen in Political Science to get to know one another, since you will be sharing classes and learning for the next four years. It is also an opportunity for students and Political Science faculty to get to know one another, their interests, and fields. It is a modest effort to ensure that some fundamental ideas about learning at college are offered to you. Credits: 1

POLI120 American Politics Frequency: A Critical examination of key aspects of the American political system. What are the major institutions of political power? How is power obtained? Which groups or social classes tend to possess more power in these institutions and why? How does the political system manage change? Credits: 3

POLI121 American Public Policy Frequency: A Introduction to the political economy of policy formation. Emphasis is placed upon the questions of why government intervention in the economy is necessary and the cost-benefit evaluation of the intervention. Political failure is contrasted with market failure in evaluating government public policies. Substantive policy areas such as health care and education policies will be analyzed. Prerequisite Courses: POLI 120 Credits: 3

POLI150 U.S. and World Affairs Frequency: B Studies key reasons for how and why countries behave as they do in international politics. Emphasis upon the changing sources of international power, colonialism, the Cold War and U.S.-U.S.S.R. struggle for power, and contemporary issues such as the arms race, Middle East conflicts, and struggle for economic power between rich and poor countries. Close study of the usefulness and morality of U.S. interventions abroad from the Gulf War to Panama, Haiti, and Bosnia. Credits: 3

POLI200 Statistics Frequency: B Introduction to the substantive and technological methodology used in study of politics commonly employed by government and business offices. Attendance required. Note: Only one statistics 200 course can be taken for credit. Credits: 3

POLI210 Research Methods Frequency: C Introduction to the variety of methods of analysis employed in the empirical study of politics. Consideration of the debates concerning the character of social science. A discussion of normative and positive methods of analysis and evaluation of topics suited for quantitative and non-quantitative treatments. Research design, data analysis, and reporting of results. Credits: 3

POLI276 Law and Society Frequency: A Introductory examination of law as instrument of social control: philosophies regarding appropriate operations and functions of law and courts; and controversies surrounding questions of proper relationships between law, morals, and governmental policy. Credits: 3

POLI277 Introduction to Law Frequency: B An examination of Anglo-American

legal principles based upon the analysis of leading court cases. A broad range of topics are covered, including criminal and civil law, legal remedies, punishment, torts, contracts and family law. This course will emphasize the development of legally defined rights and the methods involved in the legal resolution of disputes. Credits: 3

POLI280 Special Topics in Politics Frequency: D Examination of a current topic in politics, such as presidential or congressional elections. May be taken more than once as topics change. Credits: 1-4

POLI285 Mock Trial I Frequency: B Preparation of case materials for participation in the trial competition sponsored by the American Mock Trial Association. Competition includes both civil and criminal litigation. Credits: 0

POL1287 Mock Trial II Frequency: E Preparation of case materials for participation in the trial competition sponsored by the American Mock Trial Association. Competition includes both civil and criminal litigation. Credits: 0

Administration Frequency: B Examination of role of bureaucracy and administration in America. Initial focus on political setting of the bureaucracy as it interacts with other key actors and institutions. Then consideration of internal characteristics and processes, and examination of topics such as organization theory, decision-making, personnel, and budgeting. Prerequisite Courses: POLI 120 Credits: 3 POLI313 American Power Structures Frequency: C Examination of the power structures of the United States. Analysis of how factors such as economic class, race, or ethnicity influence who holds or controls political power in federal, state, and local governments. Contrasting theories of who governs are studied: pluralist, elite, and class-based models. Students will learn techniques of organizing people to exercise power in behalf of their common interests

POLI311 Fundamentals of

Public

Prerequisite Courses: POLI 120 Credits: 3

POLI321 Political Parties and Interest Groups

Frequency: C The role of political parties and interest groups in the shaping of government policies and the ordering of society is analyzed. Internal structures and membership of both parties and groups is emphasized, especially how the collective action problem is solved. The influences of parties and interest groups upon public policies are evaluated. Proposals to reform parties and groups are presented

Prerequisite Courses: POLI 120 Credits: 3

POLI322 New York Government Frequency: C Study of the legal framework of New York's state and local governments. Analysis of state and local executive organization, politics, political participation, and policy making. Critical examination of the economic competitiveness of N.Y. State in the US. and global economy. Attention also to the idea of reinventing government techniques and models Prerequisite Courses: POLI 120 Credits: 3

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POLI323 Elections in America Frequency: C Critical examination of the social, psychological, and rational choice explanations of voting. Emphasis is placed on the evidence supporting the alternative explanations. In the process of evaluating the alternative explanations, the determinants of voting, the extent of ideological thinking, trends in turnout, the political business cycle and historical changes in voting patterns are examined. Prerequisite Courses: POLI 120 Credits: 3

POLI324 President and Congress Frequency: B Critical examination of the frequently overlapping and conflicting roles of the American President and Congress in making decisions about public policy in the U.S. Attention will be given to recruitment patterns and behavior while in office as well as the nature of the policy outputs. Analysis of institutional forms in other nations will be included to provide a comparative perspective. Prerequisite Courses: POLI 120 Credits: 3

POLI325 Public Opinion and Participation

Frequency: D This course examines public opinion, political participation, and civic engagement in American democracy. Study of the formation and change in attitudes, preferences, values and identity, and the influence of socialization, media, political and social context. Assesses public trust in government and political behavior including voting and protest. Provides theoretical and practical understanding through data collection and analysis Prerequisite Courses: POLI 120 Credits: 3

POLI326 Media and Politics Frequency: D The study of mass media in American politics, investigating print, broadcast, and news media sources and technologies, content and effect. An examination of the media's watchdog role, ownership, regulation, freedom of the press, news reporting, management, and reform. Analyzes ongoing media coverage of political events, figures, and issues, researching the impact of agenda setting, framing, and priming on attention and learning. Prerequisite Courses: POLI 120 Credits: 3

POLI328 African American Politics Frequency: D African Americans have historically been confronted with a number of obstacles when attempting to act in the American political system. Students will critically assess how African Americans can best overcome these obstacles in order to obtain desired policy responses from the political system. In doing so, students will explore the historical context from which these constraints arose, how they have been overcome in the past, and contemplate what factors contribute to their persistence today. Included will be investigations into the role of patties and elections, protest politics, and the Supreme Court. Prerequisite Course: POLI 120

Credits: 3 POLI329 Topics in American Politics

Frequency: D Examination in-depth of current topic in American politics not falling within any other American politics course. May be taken more than once as topics change. Prerequisite Courses: POLI 120 Credits: 3

POLI330 Western European Politics Frequency: C Comparative study and analysis of governments and politics of the United Kingdom, France, Germany, Italy, and other Western European nations. Considerable attention will be given to the changing socioeconomic characteristics of these nations in the context of the evolving European Community and the drile for European integration. Prerequisite Courses: POLI 120 or **POLI 150** Credits: 3

POLI331 Canadian Politics Frequency: C

Frequency: C Examination of the background and socioeconomic foundations of contemporaty Canadian politics with special emphasis to the impact of linguistic, cultural and geographic divisions and their impact on the institutions and decision-making processes in Canada. Attention will also be given to the influence of the U.S., the United Kingdom and France on Canada. Prerequisite Courses: POLI 120 or POLI 150 Credits: 3

POLI332 Russian Politics

Frequency: C Critical introduction to the theoty and practice of Russian governmental institutions and political processes in light of Russian history, the Soviet and Marxist efforts to redirect that histoty, and the rapid political, social, economic and cultural changes in Russia and the former Soviet Union at the end of the twentieth century. Prerequisite Courses: POLI 120 or POLI 150 Credits: 3

POLI334 African Politics Frequency: C Study of contemporary African politics focuses upon processes of political change and conflict. This includes analysis of patterns of colonial rule, nationalist protest, modern political parties and political systems, ethnic conflict, problems of economic development, and the role of social groups, parties, the military, and ideology in the struggle for civil liberties and democracy. Studies of specific countries such as Nigeria, Ghana, South Africa. Prerequisite Courses: POLI 120 or POLI 150 Credits: 3

POLI335 Germany and Europe Frequency: D This course seeks, through an analysis of post-war developments in an occupied, then divided, Germany, to trace the origins of the 'German Question' and its impact on Germany within the broader context of East-West relations in Europe. The course then seeks to analyze the changing nature of inter-German relations and the factors leading to the dramatic events of 1989/90 and to consider the implications for Germany and Europe. Prerequisite Courses: POLI120, POLI 150, or HIST 116 Credits: 3

POLI341 Political Economy of Development Frequency: C Examines the ways political-economic factors and relationships condition the patterns of economic development and political change. The course explores: how do economies develop? does class power, domestic and international, determine economic growth patterns and which social groups benefit? Contrasting Marxist and non-Marxist analyses are used. Contemporary and historical studies of development in Europe, the Middle East, Latin America, and Africa are used. Prerequisite Courses: POLI 120 or POLI 150

Credits: 3

POLI344 Comparative Public Policy Frequency: C Survey and comparative analysis of public policies in advanced industrial democracies, with emphasis on the U.S., Western Europe, Japan, and Canada. Special emphasis on government-business relations labor relations, regional trading blocs, industrial planning, public ownership of economic enterprises, privatization, tax policy, and government-delivered health care systems.

Prerequisite Courses: POLI 120

Credits: 3

POLI345 Film and Politics Frequency: C This course uses film to explore major aspects of political life and the cultural creation of meaning about social and political power, values, and activities. Films are studied as social and political products and to enhance understanding of political phenomena in the American and other cultures. These phenomena include social/political movements, war, law, and race, gender, and class differences and conflicts. Major feature films are used. Credits: 4

POLI346 East Asian Political Economy

Frequency: C This course focuses on the political, social and economic institutions that have driven the economic development of these East Asian countries which are increasingly creating competitive problems for the United States. Extensive discussion of the role of government planning and group structures such as the keiretsu and chaebol. Also analyzed are the determinants and extent of the development of democratic government in Confucian societies.

Prerequisite Courses: POLI 120 or POLI 150 Credits: 3

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POLI348 The European Union Frequency: C Study and analysis of the politics of the European Union (EU). Topics include: theories of international organization and functional integration; the EU institutions (e.g., EU Commission, Parliament Council of Ministers European Council); and the treaties and substantive policies. Students may participate in a model EU at SUNY Fredonia or in Europe in alternate years. Taught on-line only (SUNY Learning Network). Credits: 3

POLI349 Topics in Comparative Politics

Frequency: D Examination in-depth of current topics in comparative politics not falling within any other comparative politics course. May be taken more than once as topics change. Prerequisite Courses: POLI 120 or POLI 150

Credits: 3

POLI352 World Political Geography Frequency: B Examination of the ways humans have arranged the territory of the Earth's surface, including how personal space, territoriality, and perception inform an understanding of politics; the analysis of countries within a geopolitical framework: case studies of how geography has impacted empires, civil divisions, and international relations; comparison of distribution of major political systems and their applications to territory. Prerequisite Courses: HIST 102 and POLI 150 Credits: 3 POLI354 Politics of the Middle

East Frequency: C Analysis of Middle East politics, society, and international conflicts. Covers the historical and cultural background of Middle East states, the rise of Arab, Israeli, and other nationalisms, and the contemporary politics and political economy of major Middle East states. Assesses three entangled dimensions of conflict: inter-Arab struggles, the Arab-Israeli conflict, and the contest for influence by external powers. Prerequisite Courses: POLI 120 or

POLI 150 Credits: 3

POLI355 International Political Economy

Frequency: C Focuses on the dynamics of the international economy, economic policies and problems of major states, postwar international institutions, and trade and monetary systems. Considers theories and practices of the role of major powers and multinational corporations in the international economy. Interested in the dramatic changes in the division of world productive power, impact of globalization of capital and production upon the well-being of countries and outbreak of crises, and developing country struggles to change their economic relationships with the world economy. Prerequisite Courses: POLI 150 and ECON 201. ECON 202 recommended.

Credits: 3

POLI356 U.S. Foreign Policy Frequency: C Analysis of U.S. foreign policy in the post-World War II period. Assesses the corporate, ideological, institutional, and strategic influences in policy-making. Studies patterns of U.S. relations with the U.S.S.R. Europe, Latin America, and the Third World up to the present in the context of the Cold War, the arms race, Third World struggles, US. responses to revolutionary change, and U.S. efforts to maintain a world order. Prerequisite Courses: POLI 150 Credits: 3

POLI59 Topics in International Politics Frequency: D Examination in-depth of current topic in international politics not falling within any other international politics course. May

be taken more than once as topics change. Prerequisite Courses: POLI 150 Credits: 3

POLI360 Classical Political Theory Frequency: C Analytical treatment of main problems of political theory by examination of the writings of Plato and Aristotle. Discussion of contending theories of justice, equality, and political obligation. Prerequisite Courses: POLI 120 or POLI 150 or POLI 276 or POLI 277 Credits: 3

POLI361 Modern Political Theory Frequency: C Analytical treatment of main problems of political theory by examination of the writings of Machiavelli, Hobbes, Locke, Rousseau, Marx, Mill, and Rawls. Discussion of contending theories of individual rights and obligations, as well as the justification and limits of the state. Prerequisite Courses: POLI 120 or POLI 150 or POLI 276 or POLI 277

Credits: 3

POLI363 Game Theory Frequency: D The course will use rational choice theory to analyze how individuals and groups make decisions in strategic and nonstrategic situations. Strategic situations are the result of the interdependent decisions of several individuals, e.g., nuclear deterrence or business competition. Problems covered include how computers beat humans at chess to the evolution processes of society. How do group norms arise where individual competition is the usual course of action? A low level of mathematical background is required. Prerequisite Courses: POLI 200

Credits: 3

POLI365 American Political Thought Frequency: C Critical examination of the development of American political thought, Colonial period to the present. Discussion of questions regarding the status of rights, the limits of the state, equality, and social justice. Includes analysis of the role in American politics of such ideologies as liberalism, conservatism, communitarianism, and socialism. Prerequisite Courses: POLI 120 Credits: 3

POLI369 Topics in Political Theory Frequency: D Examination in-depth of topics in political theory not falling within any other political theory course. May be taken more than once as topics change. Prerequisite Courses: POLI 120 or POLI 150 or POLI 276 or POLI 277 Credits: 3 POLI370 American Constitutional Law Frequency: E Study of nature and limitations of

judicial review and Supreme Court decisions regarding distribution of powers among national and state governments, division of powers between president and Congress, and limitations upon congressional and presidential powers. Prerequisite Courses: POLI 120 or POLI 276 Credits: 3

POLI371 Civil Rights and Liberties Frequency: 6 Study of judicial cases involving safeguarding of individual civil and property rights, special emphasis upon recent developments in interpretation of the due process and equal protection of the law clauses and First Amendment of the U.S. Constitution. Prerequisite Courses: POLI 120 or POLI 276 Credits: 3

POLI379 Topics in Public Law Frequency: D Examination in-depth of topics in public law not falling within any other public law course. May be taken more than once as topics varv Prerequisite Courses: POLI 120 or POLI 150 or POLI 276 or POLI 777 Credits: 3

COURSE

POLI380 Policy Evaluation

in-depth examination of the

assess the success/failure of

methods and techniques used to

public policies. Students learn how

to evaluate, acquiring skills that

goals, identification of measures,

data and use of an appropriate

yardstick of success. Familiarity

with statistics not required.

collection of data, interpretation of

Student learning reinforced by use

of several case studies of specific

Prerequisite Courses: POLI 120

POLI381 Urban Politics and

Investigation of the events and

processes that have shaped the

development and decline of U.S.

of cities, urban form and design,

politics and governance, urban

policy and economics, racial and

Prerequisite Courses: ECON 201

POLI382 Social Welfare Policy

Examination of the politics and

current social welfare issues such

operation of the social welfare

system in the United States. Emphasis on a policy analysis of

as the Social Security crisis,

welfare reform, the relationship

economic policy, the functions of

between direct setvice and social

Prerequisite Courses: POLI 120 or

between welfare and national

public welfare versus private

charity, and the connections

POLI383 Courts and Social

Examines role of the Supreme

shaping of public policies in such

Court and other courts in the

areas as school systems in

desegregation cases, mental

hospitals, prisons, and nursing

homes. The course will choose

social policy issues such as

affirmative action, and capital

of the courts, especially the

policies in America.

Credits: 3

punishment in order to illustrate

from current cases involving major

abortion, prayer in public schools,

the dramatic and controversial role

Supreme Court, in the shaping of

Prerequisite Courses: POLI 276

or ECON 202 or POLI 120 or POLI

socioeconomic isolation, urban

unrest, and the impact of

theories of urban planning, urban

cities. Topics include the evolution

could be applied to any policy

area. Topics include choice of

Frequency: C

evaluations.

Credits: 3

Frequency: C

technology.

Credits: 3

reform.

Policy

POLI 121

Credits: 3

Frequency: C

Frequency: B

121

Policy

DESCRIPTIONS

POLI387 Environmental Policy Frequency: C A synthesis of the political, ecological, economic, historical and cultural events and issues shaping U.S. and international environmental policy. A broad range of topics are covered, including environmental history population growth, the global commons, environmental justice, natural hazards, nuclear growth, the role of business, and regulations governing endangered species and habitats, waste disposal, water and air. Prerequisite Courses: BIOL 111 or BIOL 115 or BIOL 141 or CHEM 107 or CHEM 113 or CHEM 114 or CHEM 115 or ECON 101 or ECON 102 or ECON 201 or ECON 202 or ESCI 115 or GEO 100 or GEO 140 or GEO 141 or GEO 142 or GEO 143 or GEO 144 or GEO 145 or GEO 146 or GEO 147 or GEO 148 or GEO 149 or GEO 160 or GEO 165 or GEO 180 or PHYS 101 or PHYS 111 or PHYS 121 or PHYS 230 Credits: 3

POLI389 Topics in Public Policy Frequency: D Examination in-depth of topics in public policy not falling within any other public policy course. May be taken more than once as topics vary. Prerequisite Courses: POLI 120 or POLI 121 or POLI 150 Credits: 3

POLI401 Washington Seminar Frequency: A Prior selection required. Credits: 3

POLI402 Washington Internship Frequency: A Prior selection required. Credits: 3 - 12

POLI403 Independent Study (Washington) Frequency: A Prior selection required. Credits: 3

POLI405 Independent Study (Albany) Frequency: A Prior selection required.

Credits: 3 POL1406 Seminar in State Politics -Albany Frequency: A Prior selection required. Credits: 3

POLI407 Albany Internship Frequency: A Prior selection required. Credits: 3-12

POLI419 Directed Study: Public Administration Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor Prerequisite Courses: POLI 120 and POLI 311 Credits: 1-3

171

POLI429 Directed Study: American Politics Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 121 and POLI 31 1 or POLI 313 or POLI 321 or POLI 322 or POLI 323 or POLI 324 Credits: 1-3

POLI439 Directed Study: Comparative Politics Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 120 and POLI 150 and POLI 330 or POLI 331 or POLI 332 or POLI 334 or POLI 341 or POLI 344 of POLI 346 or POLI 352 or POLI 354 or POLI 355 or POLI 356 Credits: 1-3

POLI449 Directed Study: Political Economy Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 120 and POLI 150 and POLI 334 or POLI 341 or POLI 344 or POLI 346 or POLI 354 Credits: 1-3

POLI459 Directed Study: Politics International Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 120 and POLI 150 and POLI 341 or POLI 346 or POLI 354 or POLI 355 or POLI 356 Credits: 1-3

POLI469 Directed Study: Political Theory Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 120 and POLI 150 and POLI 360 or POLI 361 or POLI 363 or POLI 365 Credits: 1-3

POLI479 Directed Study: Law Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 120 and POLI 276 or POLI 277 or POLI 370 or POLI 371 or POLI 383 Credits: 1-3

POLI489 Directed Study: Public Policy Frequency: D Directed Studies courses are

taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor Prerequisite Courses: POLI 121 and POLI 380 or POLI 381 or POLI 382 or POLI 383 or POLI 387

Credits: 1-3

POLI490 Internship in Local Politics and Government Frequency: A Assignment to office of county, city, or village administrative official, public service agency, legislator, political party, judge, or attorney. Provides opportunities for testing theories and concepts developed in classroom. Involves full-time work during part of semester. Credits: 3-6

POLI491 Seminar in Local Politics and Government Frequency: A Discussion and reporting on selected readings and experiences encountered in internships at local government level, including assessment of roles and/or power position of particular agencies, offices, or departments to which interns are assigned. Also involves writing research paper. Prerequisite Courses: POLI 490 Credits: 3

POLI492 Legal Intern Frequency: B Assignment to law-related office. Provides opportunities for testing theories and concepts developed in classroom. Involves full-time work during part of semester. Credits: 3 - 6

POLI494 Legal Internship Seminar Frequency: D Discussion and reporting on selected readings and experiences encountered in legal internships. Also involves writing research paper. Prerequisite Courses: POLI 492 Credits: 3

POLI499 Directed Study: Political Science Frequency: D Directed Studies courses are taken for individual work not available in regular courses, according to the field to be studied. Topics determined through prior consultation with instructor. Prerequisite Courses: POLI 121 and POLI 150 and POLI 200 and POLI 210 Credits: 1-3

Psychology (PSY)

PSY100 Freshman Seminar Frequency: B New Psychology majors will learn about the department and what it has to offer. Career options will be explored and students will be introduced to the faculty. Students also will be made aware of campus resources and taught appropriate study skills. Credits: 1

PSY129 Introduction to Psychology Frequency: A Basic concepts, methods, and points of view in psychology. Specific topics span the range from biological to personal to social determinants of behavior. Credits: 3

PSY130 Psychology Laboratory Frequency: A A series of computer-based laboratories to give the student hands-on experience with a variety of phenomena in psychology. After the computer exercise, students discuss findings, implications, and applications in small groups. Attendance is required. Prerequisite Courses: PSY 129 Credits: I

PSY200 Statistics Frequency: A Investigation of basic principles of descriptive and inferential statistics used in the social sciences. A sample of the topics covered includes probability, hypothesis testing (e.g., t-tests, analysis of variance. non-parametrics), correlation and regression. Both raw score formulas and computer software are employed for computational purposes. Note: Only one statistics 200 course can be taken for credit. Credits: 3

PSY203 Computer Applications in Psychology

Frequency: B This course introduces students to the core applications used in the discipline of Psychology. A wide variety of currently available applications will be explored. The goal of this course is to teach students how to implement relevant aspects of the applications. For example, how to use MS Word to format a document in APA style, how to use MS Excel to create a graph, or how to create a verbal or poster presentation in MS PowerPoint. Students will also be taught how to access and use on-line help systems, search and utilize the web as well as create their own web pages. Prerequisite Course: PSY 129 Credits: 3

PSY210 Research Methods Frequency: A Introduction to various research methodologies employed in the social sciences ranging from observational through experimental research. Students are familiarized with basic principles of research design, data collection, data analysis and manuscript preparation (APA format). Prerequisite Courses: PSY 129 and PSY 200 Credits: 4

PSY227 Applied Psychology Frequency: B Discussion of emerging areas in psychology and the application of psychological principles to real-world settings. Focus on relationship between psychology and various other areas, such as law, medicine, business, and mental health Prerequisite Courses: PSY 129 Credits: 3

PSY237 Sport Psychology Frequency: B An introduction to the basic concepts, principles, and techniques employed in the field of sport psychology. Major topics include research methods, behavioral principles, personality and assessment, the social psychology of sport, the coach, exercise psychology, youth sport, the female athlete, the minority athlete and ethical issues Prerequisite Courses: PSY 129 Credits: 3

PSY244 Cognitive Psychology Frequency: A Examines the mental operations involved in information processing at the conceptual level. Topics include pattern recognition and attention, memory structures and processes, imagery, the interaction of language and thought, the basic thought processes of problem-solving, reasoning and decision-making, and cognitive development. Prerequisite Courses: PSY 129 Credits: 3

PSY245 Social Psychology Frequency: A Introduction to interpersonal behavior. Topics include attraction, prejudice and discrimination, attitudes, social influence, aggression, social perception, and group behavior. Prerequisite Courses: PSY 129 Credits: 3

PSY246 Personality Frequency: A Biological and social determinants of personality and its development. Methods of studying personality. Prerequisite Courses: PSY 129 Credits: 3

PSY247 Health Psychology Frequency: B Explores the role of psychological factors in the prevention of illness and maintenance of good health, the treatment of already existing illness, and the recovery from or adjustment to ongoing illness. Prerequisite Courses: PSY 129 Credits: 3

PSY255 Psychology of Women Frequency: B An examination of the biological, psychological and sociological factors that shape women's lives. Attention to the intersection of gender with ethnicity, sexual orientation, and social class. Specific topics include theories of gender development, images of women in the media, work, childbirth and motherhood, violence, physical and mental health. Prerequisite Courses: PSY 129 or

WOST 201 Credits: 3

PSY273 States of Consciousness Frequency: A Scientific overview of ordinary consciousness and other states of consciousness including sleep and dreams, meditation, biofeedback, hypnosis, drug-induced states, and parapsychology. The potentials, limitations, and dangers of these various states of consciousness are considered. Credits: 3

PSY276 Human Sexuality Frequency: C Introduction to theoretical explanations of empirical evidence regarding human sexual behavior. Consideration of reproductive anatomy and physiology; sexually transmitted diseases: sexual attitudes and behaviors throughout the life cycle; contraception; social issues related to sexuality; sexual dysfunctions: and communication in initmate relationships. Prerequisite Courses: PSY 129 Credits: 3

PSY280 Special Topics Frequency: D Special topics in Psychology not covered in detail by regular courses and not offered on a regular basis. Credits: 3 PSY286 Gender Differences Frequency: C Survey of physical, social-emotional, and cognitive sex differences revealed in research data and manifested in cultural stereotypes. Theoretical explanations for origins of these differences. Emphasis throughout on critical analysis of the data. Prerequisite Courses: PSY 129 Credits: 3

PSY289 Lifespan Human Development Frequency: C Survey of human life cycle, covering physical, mental, personality, and social development taking place during different periods (infancy, childhood, adolescence, adulthood). Attention to developmental issues and particular processes operating within and between specific periods (e.g., marriage, parenthood, career, death, and bereavement). Prerequisite Courses: PSY 129 Credits: 3

PSY300 Intermediate Statistics Frequency: D Application of statistical concepts to experimental design in psychological research. Prerequisite Courses: PSY 200 Credits: 3

PSY317 Tests and Measurements Frequency: B Introduction to the principles of testing including reliability and validity. The nature and application of different types of tests (measures of achievement, aptitude, intelligence, personality, and interests) are discussed. Both occupational and educational testing are covered. Prerequisite Courses: PSY 129 and PSY 200 Credits: 3

PSY342 Perception Frequency: A An investigation of the mental operations involved in the process of obtaining information from one's everyday environment and constructing the psychological representations that form the basis of the capacity to adapt to that environment. Topics include the perception of space, motion, and form; perceptual constancies; perceptual organization: attention and search; learning and development. Prerequisite Courses: PSY 129 Credits: 3

PSY347

Industrial/Organizational Psychology Frequency: B Examination of the dynamic nature of interpersonal behavior within an organizational context. Topics include motivation, group processes, leadership, stress, decision-making, and communication. Personnel matters including selection, training, and appraisal are discussed. Prerequisite Courses: PSY 129 Credits: 3 COURSE

PSY349 Child Psychology

normative data pertaining to

perception, learning, cognition,

Prerequisite Courses: PSY 129

Physiological

Study of physiological basis of

Prerequisite Courses: PSY 129

concepts, hypotheses, techniques,

Prerequisite Courses: PSY 245 or

PSY356 Abnormal Psychology Frequency: B Introduction of psychological

disorders, focusing on theoretical

approaches to conceptualizing

abnormal behavior and current

assessment and diagnosis of

mental disorders will also be

Prerequisite Courses: PSY 129

PSY 358 Psychology and the

psychological concepts, methods,

Controversial legal issues will be

assessment, the insanity defense,

gender and ethnicity. Influential

cases will be analyzed from a

Prerequisite Course: PSY 129

PSY364 Cognitive Development

A study of the conceptual changes

which occur during childhood.

cognitive development, infant

Topics include theories of

perceptual capabilities, the

evolution of representations,

memory systems, language

acquisition, and reasoning. Focus

is on current research and theory.

Prerequisite Courses: PSY 129

psychological perspective.

the trial process, and the impact of

examined. Topics will include

theories of crime, forensic

An examination of the legal

system through the use of

and research results.

symptomatology, etiology, and treatment of disorders. Methods of

research regarding the

and research in group dynamics.

PSY355 Group Dynamics

Analysis and evaluation of

children in such areas as

A review of research findings and

Frequency: B

and personality.

Credits: 3

Psychology

Frequency: A

PSY351

behavior.

Credits: 3

SOC 204

Credits: 3

examined.

Credits: 3

Frequency: B

Credits: 3

Credits: 3

Frequency: B

Law

Frequency: B

PSY365 Social Development Frequency: B Explores the process of socialization. Theories and research relating to social development in areas such as achievement, self-concept, aggression, altruism, and gender roles are covered. Emphasis on the impact of and linkage between various socialization agents (e.g., parents, peers, and school). Social issues (e.g., divorce, drug abuse, etc.) and intervention programs will be considered. Prerequisite Courses: PSY 129 Credits: 3

PSY366 Psychology of Adulthood Frequency: D Examination of data and theory having to do with psychological issues of importance in adult development (perception, cognition, identity, intimacy, socialization, life phases, etc.), and implications of these for adults and those working with them. Prerequisite Courses: PSY 129 Credits: 3

PSY370 Cross-Cultural Psychology Frequency: B An introduction to psychological theory and research from the perspective of other cultures. Investigates the origins of psychological thought and overviews the development of the discipline in various historical and political contexts. Focus will vary from semester to semester depending upon instructor. Prerequisite Courses: PSY 129 Credits: 3

PSY373 Human Factors Frequency: B The study of how humans perceive, think about, and interact with technology and machines. Includes evaluating human performance with technological systems, and designing such systems for reducing human error. Prerequisite Courses: PSY 129 Credits: 3

PSY379 Child Psychopathology Frequency: B An introduction to the assessment, diagnosis, and treatment of abnormal behavior in children and adolescents, with consideration of variability in symptomatology and treatment as a function of developmental status. Prerequisite Courses: PSY 129 and PSY 356 Credits: 3

PSY380 Special Topics Frequency: D Special topics in Psychology not covered in detail by regular courses and not offered on a regular basis. Prerequisite Courses: PSY 129 Credits: 3 PSY429 History and Systems of Psychology Frequency: B Historical study of psychology focusing on successive schools of thought that have had major influence on the discipline. Prerequisite Courses: PSY 210 Credits: 3

PSY430 Theories of Psychology Frequency: B A discussion of the principles, assumptions, construction, and application of various theories of human behavior. The specific theories covered will vary with the instructor, e.g. Anderson's cognitive theory, Bandura's social learning theory, Freud's psychanalytic theory, Piaget's theory of development, Skinner's theory of learning. Prerequisite Courses: PSY 210 Credits: 3

PSY439 Senior Honors Seminar Frequency: B In-depth analysis of selected topics. Prerequisite Courses: PSY 210 Credits: 3

PSY444 Psychology of Language Frequency: C The study of human language and thought processes. The course covers the following topics: speech perception, the role of memory systems in processing sentences and storing knowledge, the development of the language rule system in children, the

influence of mother's language on the acquisition process, and second language acquisition. Prerequisite Courses: PSY 129 Credits: 3

PSY445 Seminar in Social Psychology Frequency: B In-depth exploration of a specific topic in Social Psychology: Topics covered will varv with the instructor, e.g., Psychology of Ethnicity, Leadership and Achievement, Social Cognition and Attribution Processes, Intimate Relationships, Prejudice and Discrimination. Prerequisite Courses: PSY210 and PSY 245

Credits: 3

PSY447 Introduction to Counseling Frequency: A Provides an overview to the fields of counseling and clinical psychology, focusing on current theoretical approaches to conducting psychotherapy and counseling, assessment tools and techniques used in the fields of clinical and counseling psychology, and the basic skills (e.g., interviewing, problem-solving, active listening) used in counseling interventions with clients. Abnormal Psychology is a recommended prerequisite, Prerequisite Courses: PSY 129 Credits: 3

PSY454 Theories of Memory Frequency: B In-depth exploration of several theoretical approaches to the study of human memory. Past, present, and future implications of the theories will be evaluated and discussed. Prerequisite Courses: PSY 210 and PSY 244 or PSY 364 Credits: 3

PSY458 Practicum in Teaching Frequency: A With supervision, teaching assistants (TAs) experience various aspects of teaching including class preparation, leading discussions, and student evaluation. Each TA is responsible for sections of PSY 130 Psychology Laboratory. Prerequisite Courses: PSY 210 Credits: 3

PSY479 Internship in Psychology Frequency: A A number of internships are available to psychology students. These vary in setting but all involve work under supervision in a community setting. Students should see the department internship director for a description of internships available. Credits: 3-6

PSY489 Independent Study Frequency: A Individual student research conducted under guidance of selected instructors, with permission of instructor. Credits: 1-3

PSY510 Contemporary Issues in Psychology Frequency: D Critical review of recent contributions to the field, including topics such as motivation, learning, personality, perception, and social influence. Credits: 3

PSY546 Classroom Expectancy Effects The formation and impact of expectancies will be discussed. Research in both Psychology and Education will be presented. The creation of self fulfilling prophecies and their effect on student achievement will be emphasized. Credits: 3

PSY550 Studies in Psychology Frequency: D Exploration in-depth of selected topics in psychology. Major focus varies from semester to semester. Credits: 1-3 PSY570 Japanese Culture and Education Frequency: B This course overviews the Japanese educational system and Japanese educational system and Japanese educational system and Japanese educational system and An indepth examination of the nature of typical Japanese schools at all levels of compulsory education is included. Unique educational approaches, such as juku and kumon, are reviewed. Credits: 3

Russian (RUSS)

RUSS115 Elementary Russian I Frequency: D For students with no previous preparation. Study of fundamental speech patterns. Initial stress on listening comprehension and oral ability. Progressively greater emphasis on reading and writing skills. Credits: 3

RUSS116 Elementary Russian II Frequency: D Continuation of RUSS 115. Further introduction to fundamental speech patterns. For students with one semester of college level Russian or equivalent. Stress on listening comprehension, oral ability, reading, and writing skills. Prerequisite Course: RUSS 115 Credits: 3

Science Education (SCI)

SC1301 Science for Elementary Educators

Frequency: A In-depth focus on key concepts in the areas of chemistry and physics. Application of these concepts to real world situations and to topics in the elementary science curriculum are emphasized. Credits: 3

SC1302 Science for Elementary Educators Lab

Frequency: A Designed for elementary/childhood education majors, this laboratory engages students in experiments from biology, chemistry, geology and physics. Most of the experiments are interdisciplinary in nature. The students will plan and execute experiments and then evaluate their data and document their conclusions. Evaluation will be based on laboratory notebook, written lab reports and oral presentation of experimental results Credits: 3

SCI 303 Science for Elementary Educators II Frequency: A In-depth focus on key concepts in the areas of biology and geology. Applications of these concepts to real world situations and to topics in the elementary science curriculum are emphasized. Credits: 1 SC1325 Science Teaching Assistantship Frequency: A This course is designed to provide science education majors with science teaching experience guided by science faculty. Students will assist in curriculum development, preparation and instruction for lectures, interactive activities and laboratory experiments in the areas of biology, chemistry, earth science and physics. The students will be teaching assistants for SCI 301, 302, and/or 303. Credits: 1

SC1591 Special Topics in Science Education Frequency: B Courses which are interdisciplinary in science and education on topics announced in the Course Offerings Bulletin each semester. Credits: 3

Time Shortened Degree (SDEG)

SDEG100 Humanities Advanced English 12 class taken by students in the 3-1-3 Program. This is a year-long writing intensive course that provides a sulvey of western literary texts. Credits: 3 - 6

SDEG101 Mathematics Students from area high schools earn general education credits for 4th year high school Mathematics. Students must pass the Regents or earn a C or better if non-Regents. For specific course description, contact 3-1-3 Program (Fourth Floor-Reed Library 71 6-673-3550). Credits: 3 - 6

SDEG102 Chemistry Students from specific area high schools earn general education credits for fourth year high school Chemistry. Students must pass the regents or earn a C or better if non-regents. For specific course description, contact 3-1-3 Program (Fourth Floor-Reed Library 716-673-3550). Credits: 3-6

SDEG103 Physics Students from area high schools earn general education credits for fourth year high school Physics. Students must pass the Regents or earn a C or better if non-Regents. For specific course description contact 3-1-3 Program (Fourth Floor-Reed Library 716-673-3550). Credits: 3-6

SDEG104 Social Science This course is part of the approved Fredonia 3-1-3 Program. Credits: 3-6

Sociology (SOC)

SOC116 Introductory Sociology Frequency: A The methods, insights, and perspectives of sociology; how sociologists do their work: how individuals are influenced by society and its culture: how people learn to become members of society (the socialization process), and how people interact with others in it. Review of major topics of sociological interest and concern. Credits: 3

SOC160 Special Topics Frequency: D A course covering material not covered by existing courses, offered on an occasional basis. Credits: 3

SOC200 Statistics for Sociologists Frequency: A An introduction to the place of statistics in the research process; develops understanding of statistics as a valuable tool in analyzing data. Deals with probability, sampling, tables, graphs, averages, measure of variation, measures of association, tests of significance, and multivariate statistics. Special emphasis given to analysis of survey data using computers. Prerequisite Courses: SOC 116 Credits: 3

SOC201 Social Problems Frequency: B Review of the causes, nature, dynamics, and modes of alleviating some major social problems in contemporary U.S. Among the problems which may be reviewed are poverty, deviance, crime and delinquency, discrimination (racism, sexism, ageism), ecological-environmental threats, over-population, as well as problems of vital institutions (familial, medical, political, economic). Prerequisite Courses: SOC 116 Credits: 3

SOC202 Social Analysis Frequency: A Seeks to orient students sociologically toward a broad range of social phenomena in such a way that they can begin systematically to question, analyze, and articulate a sociological point of view on any topic of sociological interest. Prerequisite Courses: SOC 116 Credits: 3

SOC204 Social Psychology Frequency: B The forms of social interaction that relate people to each other in everyday life and the consequences for individuals of their social experiences. Theoretical models applied and evaluated for their explanatory power in illuminating such issues as socialization into roles, attitude formation, development of self concept, conflict resolution, etc. Prerequisite Courses: SOC 116 Credits: 3 SOC218 Introduction to Social Work

Frequency: B Introduction to theoretical and practical foundations of social work Examination of values knowledge, and skills underlying a generalist approach to social work. Analysis of role of social workers in such settings as hospitals, schools, mental health agencies, and family and child welfare agencies. Prerequisite Courses: SOC 116 Credits: 3

SOC240 Health and Society Frequency: C Examines the social psychology of heakh and illness, social epidemlogy and the social correlates of illness, and the organization of health care, including the doctor-patient relationship, the heakh professionals, and health institutions. Prerequisite Courses: SOC 116 Credits: 3

SOC245 Applied Sociology Frequency: B An introduction to the application of sociological theories, concepts, and research strategies to help people, organizations, agencies, and communities identify, analyze, and solve problems and to evaluate the success of problem solving effotts. A variety of sociological approaches are linked to problem definition and resolution strategies routinely used in numerous professional settings, including needs assessment, program evaluation, program outcomes and impact assessment social indicators development, and management information systems. The course includes a lab component that will provide beginning level skills in using several software packages widely employed in applied work. Prerequisite Courses: SOC 116 Credits: 3

SOC272 Exploring Frequency: B Explores how communities and the social work profession respond to social problems. Traditional classroom-based learning is combined with service learning activities to increase student knowledge of the social service delivery system. Prerequisite Courses: SOC 218 Credits: 3

SOC300 Research Methods

emphasis is placed on the

conceptualization, design,

collections methods of survey,

experiment and observation are

Prerequisite Courses: SOC 116

Examines the sources, forms, and

consequences of social inequality,

with major emphasis on social

includes racial and ethnic

issues in social policy.

SOC306 Sex and Gender

Credits: 3

Frequency: A

ANTH 115

Credits: 3

Sociological

Frequency: B

and SOC 202

Credits: 3

SOC309

Sociological

Frequency: B

stratification, and gender inequality. Also analyses on

debate over the inevitability of

inequality, and examines related

Prerequisite Courses: SOC 116

Description and analysis of sex

different levels of socio-cultural

complexity. Note: Cross-listed as

Prerequisite Courses: SOC 116 or

Theory

Critical examination of the modern

grounding of sociological theory in

the works of Durkheirn, Marx,

Weber and Simmel. Examines

linkages of past with present in

contemporary sociological enterprise. Considers

developments through 1920.

Prerequisite Courses: SOC 116

Contemporary

Explores contemporary claims

concerning what human beings

are like, what society is, and what

modern foundations of sociological

functionalist, Marxist, and symbolic

interactionist traditions through

grounded in phenomenological, critical, feminist, structuration and

Prerequisite Courses: SOC 116

contemporary approaches

we can know about the two. The

theory are traced from

Dostmodern theories.

and SOC 202

Credits: 3

Theory

from a variety of societies at

ANTH 300 and WOST 302

SOC308 Foundations of

and gender roles and relationships

stratification in the United States.

Emphasis on social class, but also

SOC303 Social Class and

measurement, and data

A course concerned with knowing;

evaluation of information and the

Frequency: A

discussed

Credits: 3

Inequality

and SOC 200

Frequency: B

research process:

DESCRIPTIONS

SOC310 Sociology of Deviant Behavior Frequency: B Covers theoretical and empirical issues in the sociological understanding of deviant behavior. Research studies of several forms of career deviance analyzed and critiqued: suicide, skid row, addiction, prostitution, homosexuality, mental illness, physical handicaps. Prerequisite Courses: SOC 116 Credits: 3

SOC311 Sociology of Addiction Frequency: C Examination of all that behavior which has come to be identified as addiction including tobacco smoking, alcoholism, substance abuse, eating disorders and gambling. An analysis of competing theories of addiction and treatment. The political, economic and social ramifications of addiction control. Prerequisite Courses: SOC 116 Credits: 3

SOC312 Plagues and Peoples Frequency: B This course explores the impact of disease on human populations in terms of demographic, cultural and social changes. The rise of health care delivery systems is addressed as a response to epidemics. Examples include the bubonic plague of the 14th and 17th centuries, cholera, influenza, polio and AIDS. Note: Also listed as ANTH 301. Prerequisite Courses: SOC 116 or ANTH 115 Credits: 3

SOC316 Minority Groups Frequency: A Study of discrimination against ethnic groups (race, religion, national origins); major groupings within the U.S. such as blacks, Jews, Native Americans, Hispanics, and Asian Americans. Ethnic relations in countries throughout the world, with an emphasis on the impact of colonialism on ethnic relations. Prerequisite Courses: SOC 116 Credits: 3

SOC317 Sociology of Religion Frequency: C Religion in sociological perspective: the social functions of religion, its interaction with other social institutions and with social change processes and its organizational structure in America and other societies. Prerequisite Courses: SOC 116 Credits: 3

COURSE

SOC320 Family Sociology Frequency: B Overview of sociological perspectives on the family; emphasis on current state of the family in society. Topics include premarital sexual behavior and attitudes; dynamics of mate selection; marriage as an institution; marriage and sex roles; family dynamics (parenthood, childhood, family politics, violence in the family, divorce, etc.); marriage and the family as a subjective reality; alternative family forms; and the future of the family. Relationship between family and other social institutions. Prerequisite Courses: SOC 116 Credits: 3

SOC321 Population and Society Frequency: B An introduction to social demography, this course provides an overview of the three basic demographic processes: fertility, mortality, and migration. It evaluates the relationships among these population processes and their interaction with population structures and characteristics, such as age, sex, marital status, race/ethnicity, social class and religion. It also examines contemporary social issues associated with the population processes, including equality, aging, urbanization, women and household structure, economic development and environmental concerns

Prerequisite Courses: SOC 116 Credits: 3

SOC322 Work and Society Frequency: B Work as an essential form of human behavior; division of labor, labor force, techniques of occupational analysis; impact of work on individual; professions; careers; work as a social problem. Prerequisite Courses: SOC 116 Credits: 3

SOC325 Complex Organizations Frequency: A Social structure and social processes of formal organizations. Behavior within organizations. Comparison of major types of organizations: educational, military, business-industrial, hospital, and governmental. Prerequisite Courses: SOC 116 Credits: 3

SOC327 Understanding People Frequency: C

Using biographies, explores how key sociological factors such as age, gender, race, marital status, socio-economic status, occupation, religion and health affect the everyday life of people, their life chances and life choices, their perspectives on themselves and on their world, their values and their beliefs.

Prerequisite Courses: SOC 116 Credits: 3 SOC331 Health Organizations Frequency: C The course is designed to introduce students to the application of organizational theory and research, and principles of administration in the management of a variety of health services organizations. Various aspects of management, including institutional planning and policy development, financial management and personnel administration are examined for hospitals, health maintenance organizations, skilled nursing and health facilities, and various community-based programs. Credits: 3

SOC337 Sociology of Aging Frequency: C In-depth overview of social gerontology, focusing on aging in modern societies. How major institutional changes affect the aged. Review of major problems: status as a minority, retirement adjustment, income, social attitude towards the aged, kinship and other roles. Prerequisite Courses: SOC 116 Credits: 3

SOC338 Sociology of Death and Dying

Frequency: C Examines the growing body of sociological and social psychological literature on humankind's last major status passage. institutions which structure death are considered and the processes accompanying dying are investigated. Cross-cultural as well as American death phenomena are included. Prerequisite Courses: SOC 116 Credits: 3

SOC343 Health Systems and Policy

Frequency: C Examination of major functional areas of the health care delivery system, including primary care, acute care, long-term care, and mental health services; the role of the various institutions and groups involved in the organization and delivery of health services; and of administrative, legal, and financial concepts and issues related to

planning and management of health services. Prerequisite Courses: SOC 116 Credits: 3

SOC345 Women, Health and Society

Frequency: B Examines ways in which health

and illness for women are defined and managed. Topics include the medicalization of pregnancy and birth, adolescence and sexuality, addiction, mental health, menopause, body image, and, women as health care providers. Prerequisite Courses: SOC 116 Credits: 3 SOC346 Mental Health and Society Frequency: D A study of the role of sccial factors in the definition, development, and distribution of mental illness, and of social responses to problems of mental health, with primary emphasis on understanding the role of various groups and institutions in prevention, diagnosis, treatment, and rehabilitation. Prerequisite Courses: SOC 116 Credits: 3 SOC350 Special Topics Frequency: D

Special topics in sociology not covered in detail by regular courses and not offered on a regular basis. Prerequisite Courses: SOC 116 Credits: 3

SOC360 Criminal Justice System Frequency: D Comprehensive study of structure and functioning of the criminal justice system; its historical, philosophical, and political origins; comprehensive review of the system including the law, police, the courts, and corrections. Prerequisite Courses: SOC 116 Credits: 3 SOC361 Law in the World Frequency: C Compares criminal law and justice systems of a variety of contemporary societies. Details characteristics of common law, civil law, and socialist law legal systems as contexts to explore the practices of specific

countries. Examines crime patterns across countries. Prerequisite Courses: SOC 116 Credits: 3

SOC362 Criminology Frequency: D An investigation of the nature and causes of crime. Issues covered include: the police, criminal law, criminal court system, epidemiology of crime, and criminal careers. Prerequisite Courses: SOC 116 Credits: 3

SOC363 Victimology Frequency: C Introduction to the study of victim-criminal relationships. Issues of conceptual and empirical interest covered include: history of the status of victims of crime in Western criminal justice systems; sociological characteristics of victims; victim-risk; victim-precipitated crimes; and victim compensation programs. Prerequisite Courses: SOC 116 Credits: 3

SOC364 Juvenile Delinquency Frequency: B An examination of delinquent behavior and its distribution in society. Topical issues discussed include the juvenile justice system, theories of delinquency, and methods of social control of this behavior. Prerequisite Courses: SOC 116 Credits: 3 SOC365 Family Violence Frequency: D The variety of forms of family violence--child abuse, partner abuse, and elder abuse are examined with regard to its range and scope as well as legal and cultural issues. Explanations of and societal responses to these phenomena are detailed and evaluated. Junior Standing. Prerequisite Course: SOC 116 Credits: 3

SOC366 Sociology of Corrections Frequency: B A study of societal reactions to crime from an historical, socio-political, social psychological and economic perspective. The functions of retribution, rehabilitation, incapacitation and deterrence are examined. Prerequisite Courses: SOC 116 Credits: 3

SOC400 Seminar in Sociology Frequency: D A capstone course for sociology

majors that encourages the integration and critical appraisal of sociological and social issues to promote reflection on the field of sociology as a whole and its relation to other fields of knowledge. While subject matter may vary from year to year, the seminar involves in-depth study and critical examination of major social issues and important and enduring sociological concerns. The seminar also involves a collective project in which students focus on developing strategies to help resolve these issues and concerns. Permission of instructor. Credits: 3

SOC442 Criminal Justice Seminar Frequency: D Designed for those students doing criminal justice internships. Selected readings and group discussions to assist students in organizing their field experiences and interpreting them in relation to major conceptual issues in criminal justice. Permission of instructor. Credits: 1

SOC470 Directed Study Frequency: A One to 3 credit hours of credit for individualized study under guidance of a member of the faculty. Permission of instructor. Credits: 1-3

SOC471 Field Research Frequency: D One to 3 credit hours assisting faculty members in research. May involve content analysis, interviewing, data processing, and gaining familiarity with computer operations. Permission of instructor. Credits: 1-3 SOC472 Sociology Internship Frequency: D Supervised placement with a public or private organization. A limited number of opportunities to observe and participate in sociology-related endeavors in the workplace. Permission of instructor. Prerequisite Courses: SOC 116 Credits: 1-15 SOC473 Criminal Justice Internship Frequency: A Supervised placement in legal

and/or criminal justice work settings. On a limited basis, opportunity to observe and engage in various facets of criminal justice system. Permission of instructor. Credits: 3-15

SOC570 Directed Study in Sociology Frequency: D Individualized study under guidance of a member of the sociology faculty. Permission of instructor. Credits: 1-3

Social Work (SOCW)

SOCW249 Social Welfare Institutions Frequency: B Introduces students to the basic public and private sector mechanisms of social welfare policy and services through the lens of history. The importance of values/attitudes/beliefs in the political process and the concept of social justice are analyzed. The development of the social work profession is featured. Prerequisite Courses: SOC 116 and SOC 218 Credits: 3

SOCW315 Child Welfare Frequency: C A survey of the child welfare field of practice. Emphasis is on services provided to children and their families and the local, national, and state policies that guide them. Prerequisite Courses: SOC116 or SOC 218 Credits: 3 SOCW325 Social Work Practice Methods I

Frequency: B The first of three sequenced social work practice courses in which students learn generalist social work theory and method. In-depth preson-in-environment perspective and its application within and between micro, mezzo, and macro systems. Advanced standing required. Credits: 3 Frequency: B Explores the theories and knowledge of human bio-psycho-social lifespan development Prerequisite Courses: BIOL 110 and Advanced Status Credits: 3 SOCW341 Human Behavior in Social Environment II Frequency: B Builds on the knowledge and theory learned in SOCW 340 by taking a social systems approach to analyze the impact of environmental forces upon individual and collective behavior. Family, group, organization, and community theories are discussed. Prerequisite Courses: SOCW 340 Credits: 3 SOCW370 Social Work Practice Methods II Frequency: B Second course in the social work course practice sequence builds on SOCW 325. Focus is on the skills needed to implement the generalist problem solving method within and between micro. mezzo and macro systems. Prerequisite Course: SOCW 325 Credits: 3 SOCW390 Social Work Practice Methods III Frequency: B Final course in the social work practice sequence challenges the students to increase their generalist problem-solving, communication, assessment, intervention skills through direct, student-led exercises and multi-system case application. Practice evaluation is stressed. Prerequisite Courses: POLI 382, SOC 300, SOCW 249, SOCW 341, and SOCW 370 Co-requisite Courses: SOCW 400, 480 and SOCW 485 Credits: 3 SOCW399 Selected Topics Frequency: A Variable-content course; topic will be announced in the Course Offering Bulletin each semester offered. Credits: 3 SOCW400 Policy and Social Work Practice Frequency: B Advanced policy course which integrates policy analysis with social work practice principles. Students analyze current social policy and its impact on people. In a major writing assignment, students analyze a particular policy and propose micro, mezzo, and macro social work

SOCW340 Human Behavior in

Social Environment I

interventions to influence policy change and promote social justice. Prerequisite Courses: POLI 382 and SOCW 249 Co-requisite Courses: SOCW 480, SOCW 485, and SOCW390 Credits: 3 SOCW470 Directed Study Frequency: A Individualized study with a social work faculty member. Permission of instructor.

Credits: 1-3

SOCW480 Field Practicum I Frequency: B The first semester of a professionally supervised 500 total hour placement in a human services agency. Students are expected to complete 250 hours of direct service to individuals, families, groups or communities and/or other duties expected of a beginning-level social worker during the semester. Students are expected to apply social work theory, knowledge and method to actual cases, identify areas of professional growth, process their experiences, and begin assessing their practice using standard research methods. Prerequisite Courses: POLI 382,

SOC 300, SOCW 325, SOCW 340, SOCW 341, SOCW 370 Co-reaulisite Courses: SOCW 390, SOCW 485 Credits: 3

SOCW485 Field Practicum I with Seminar

Frequency: B An extension of SOCW 480: Field Practicum I allowing for the sectioning of practicum students into small peer groups for weekly group meetings. Students are divided into sections and assigned faculty field liaisons who assist students develop and implement an individualized professional Learning Contract for their practicum placements. Weekly meetings are held to analyze issues discovered through the practicum experience. Faculty liaisons monitor and evaluate student performance for the entire practicum experience (SOCW 480 and 485). Prerequisite Courses: SOCW325, SOCW370, SOC 300, POLI 382 Co-reauisite Courses: SOCW 390, SOCW 480

Credits: 3

SOCW490 Field Practicum II Frequency: B The continuation of the students' experiential learning at the same agency in which the student was placed in during SOCW 480. Students need to complete 250 or more hours of direct service practice and/or other duties expected of the beginning level social worker. Prerequisite Courses: SOCW 390, SOCW 480, and SOCW 485 Co-reausite Course: SOCW 495 Credit;: 3 SOCW495 Field Practicum II with Seminar Frequency: B An extension of SOCW 490: Field Practicum II which allows for the sectioning of practicum students into small peer groups for weekly group meetings. Expectations for student performance increase and new Learning Contracts are constructed and implemented. Weekly meetings focus on the critical assessment of the student's use of skill, knowledge, and theory in their practicum placement. Faculty field liasons facilitate group meetings and monitor the Practicum experience, evaluating student performance for both SOCW 490 and 495. Prerequisite Courses: SOCW 480 and SOCW 485 Co-requisite Courses: SOCW 495 Credits: 3

DESCRIPTIONS

Speech Pathology and Audiology (SPA)

SPA100 Freshmen Seminar in Speech Pathology Frequency: B Freshmen Seminar in Speech Pathology is a one-credit course that is intended to help incoming Speech Pathology freshmen succeed at SUNY Fredonia and become lifelong learners. The course introduces first year students to the academic and social aspects of college life, and is designed to empower students to become successful learners at the collegiate level. Freshmen Seminar in Speech Pathology provides both an introduction to the nature of college education and a general orientation to the functions and resources of the college as a whole. Credits: 1

SPA115 Introduction to Sign Language Frequency: B

Frequency: B Introduces the student to three major areas of learning to use a signed language. First, deaf culture is explored. Second, manual communications as a language is surveyed. Third, the practical application of sign language as a method of communication is stressed and practiced. In class and out of class practice is emphasized. Credits: 3

SPA150 Introduction to Communicative Disorders Frequency: B Introduction to and overview of the field of communicative disorders (speech, language and hearing). Interactions with related disciplines in the humanities, and in the behavioral, biological and physical sciences, as well as study of the normal communication processes. Credits: 3 SPA201 Voice/Articulation/ Resonance Frequency: D Survey of voice and speech production. Introduction to International Phonetic Alphabet. Techniques of analysis and improvement of simple deviancies of voice, articulation, and resonance. Vocal hygiene is stressed. Credits: 3

SPA206 Fundamentals of Acoustics Frequency: B This course is designed to introduce Speech Pathology students to the fundamental concepts of general acoustics. The nature of sound waves, simple harmonic motion, relative measure of power, complex waves, Fourier analysis, resonance and filtering distortion and sound transmission will be covered. Emphasis will be placed on the analysis and measurement of speech production and perception. High school physics and/or PHYS 120 is recommended. Credits: 3

SPA208 Geriatric Communication Disorders Frequency: D Provides students in related programs with information about the communication problems and disorders associated with aging. Focuses on the normal communication process, speech, language and hearing disorders of the aged and the psychosocial consequences of disordered communication. Management approaches, services available and the evolving role of the health professional are discussed. Credits: 2

SPA215 Intermediate Sign Language Frequency: B Prior completion of an introductory course in sign language required. Intermediate Sign Language extends the three major areas introduced in Introduction to Sign Language. First, deaf culture is analyzed by reviewing selected literary works. Second, manual communications as a language is critically analyzed. Third, the practical application of sign language as a method of communication is stressed and practiced. The course emphasizes a transition from signing English to American Sign Language Prerequisite Courses: SPA 115 Credits: 3

SPA250 Speech and Language Development Frequency: B Introduction to normal language and speech development in children. Provides theoretical and practical frame of reference for students entering child-centered professions. Foundations of language and speech acquisition, developmental processes requisite to normal speech and language, and means of facilitating normal communicative abilities. Credits: 3

SPA316 Speech Science Frequency: B Study of the interrelationships between acoustic, physiological, and aerodynamic factors influencing voice and speech production, including study of processes of respiration, phonation, resonation, articulation, and their interrelationships. Prerequisite Courses: SPA 318 SPA 350 Credits: 3

SPA318 Speech/Hearing Mechanism Frequency: B Examines the anatomical and physiological characteristics of the speech and hearing mechanisms. Specific focus on the integration of the respiratory, phonatory, supraglottal and hearing systems as they relate to speech production and perception. Credits: 3

SPA321 Speech Pathology Frequency: B Organic and functional disorders differentiated and characterized as to etiology and incidence in terms of speech sounds and physical characteristics. It includes stuttering and voice disorders. Prerequisite Courses: SPA 250, SPA 318, and SPA 350 Credits: 3

SPA322 Hearing Problems and Tests Frequency: B Introduction to acoustics, anatomy, physiology and pathology of the auditory system. Study and performance of audiology as applied in clinical environments. Emphasis on theoretical and applied research to differentiate normal from abnormal audition. Prerequisite Courses: SPA 318 Credits: 3

SPA323 Phonological/Language Disorders Frequency: B Assessment and intervention principles and practices appropriate for working with articulation and language problems of children and adults. Prerequisite Courses: SPA 250 Credits: 3 SPA327 Organization and Administration of Speech and Hearing Programs Frequency: B Principles and practices necessary to the organization of programs for school systems; discussion of federal, state laws and regulations governing the state delivery system. Credits: 2

SPA328 Clinical Methods: Speech and Hearing Frequency: B Study of diagnostic and therapeutic methodologies for management of the communicatively handicapped. Observation of clients in clinical and laboratory environments; experiences specific to provision of clinical services. Prerequisite Courses: SPA 250, SPA 318, and SPA 350 Credits: 3

SPA329 Clinical Practice: Communication Disorders Frequency: A Application of the students knowledge from the classroom to a clinical situation. Student interns assigned to college clinic or off campus school sites provide speech/language testing and therapy to clients under faculty supervision. Required attendance at weekly staff meetings for case reviews and presentation of diagnostic and remedial materials. No less than a C grade in SPA 328 Clinical Methods, and a 2.0 GPA in SPA 250, SPA 31 8 and SPA 350. Prerequisite Courses: SPA 250, SPA 318, SPA 328, and SPA 350 Co-requisite Courses: SPA 331 Credits: 3 SPA330 Clinical Practice Frequency: D

As required. Credits: 3 SPA331 Clinical Practice: Lecture and Staffing Frequency: A Weekly meeting with Clinic Coordinator for lectures on tests and procedures appropriate to the current clinical environment.

Co-requisite Courses: SPA 329 Credits: 1 SPA350 Phonetics Frequency: B Study of general articulatory phonetics, introduction to acoustic

phonetics and phonology. Students transcribe English and non-English sounds following International Phonetic Alphabet (IPA). Credits: 3

SPA418 Stuttering and Voice Problems Frequency: B Study and analysis of normal and pathological voice production, etiology, and clinical management. Historical aspects and present-day concepts, definitions, descriptions, causes, development, and remediation of stuttering. Prerequisite Courses: SPA 318 Credits: 3

SPA419 Aural Habilitation and Rehabilitation Frequency: B Introduction to speech reading and auditory training to optimize speech perception. Study and performance of the visual and auditory system as applied in clinical environments. Emphasis on theoretical and applied research to normal from abnormal speech perception. Prerequisite Courses: SPA 322 Credits: 3 SPA420 Advanced Speech Pathology

Frequency: D Seminar devoted to assigned readings and to approved individual research. Strengthens student knowledge in specific areas in preparation for more advanced studies. Prerequisite Courses: SPA 321 and SPA 418 Credits: 3

SPA432 Student Teaching Frequency: A Field-based practicum at public schools, BOCES facilities or community-based programs. Cooperating clinicians supervise students engaged in the provision of testing and therapy services to the speech/language and hearing impaired. Prerequisite Courses: SPA 329 Credits: 10

SPA450 Computer Applications in Communication Disorders Frequency: D Introduction to the use of microcomputers in speech-language pathology and audiology. Students are introduced to computer hardware and software and will explore diverse administrative, diagnostic, and therapeutic applications including assistive augmentative communicative systems. Credits: 3

SPA490 Independent Study Frequency: A Study of a particular problem in speech pathology and audiology. Periodic meetings with instructor; writing a substantial paper. Credits: 1-3

SPA495 Seminar in Speech-Language Pathology/Audiology Frequency: C Detailed study of selected topics in speech pathology or audiology. Content will change from semester to semester but will focus on a relatively narrow topic or issue of current interest. Credits: 1-3

SPA500 Language Problems in Children Frequency: B Theoretical and practical

background of intervention goals that can be applied to children with language/cognitive problems. Credits: 3 SPA502 Clinical Practice, Communication Disorders Frequency: A An application of the student's knowledge from the classroom to a clinical situation. Students assigned to speech/Language and audiological assessments and therapy at the college clinic under faculty supervision. Attendance at periodic staff meetings. Completion of three semesters or summer sessions of practicum required. Credits: 3

SPA510 Pediatric Audiology Frequency: B An introduction to pediatric parameters as they relate to clinical audiology. Study and performance of audiology as applied in pediatric, clinical environments. Emphasis of theoretical and applied research to differentiate normal from abnormal pediatric audition. Prerequisite Courses: SPA 550 Credits: 3

SPA520 Multicultural Issues in Communication Disorders Frequency: D Attempts to prepare the

Speech/Language Pathologist to fairly and effectively understand cultural constraints involved in communication disorders, to learn culturally sensitive diagnostic procedures and to determine therapeutic techniques that are consistent with minority populations and their beliefs and values about communication. Credits: 3

SPA525 Speech and Hearing Problems in the Classroom Frequency: D

Methods to assist classroom teacher to improve speech habits and correct minor defects. Recognition of speech defects, cooperation with speech pathologist, medical personnel, and family. Demonstration and lectures of classroom management of speech and hearing problems. Not open to majors in Speech Pathology and Audiology. Credits: 3

SPA530 Augmentative and Alternative Communication Frequency: D Assessment and therapy techniques for augmentative/alternative communication (AAC). Overview of diagnoses that often require AAC. Assessment and therapy considerations for motoric, linguistic, cognitive and sensory skills and for communicative needs in context. Specific high and low tech systems will be explored. Credits: 3

SPA560 Studies in Hearing Research Frequency: B Advanced study of acoustics, anatomy and physiology, and pathology of auditory system. Study classic, historical, and contemporary theoretical and applied research germane to the basis and development of audiology. Emphasis of reported research to differentiate normal from abnormal audition Prerequisite Courses: SPA 550 Credits: 3

SPA565 Instrumentation in Communicative Disorders Frequency: B The course will focus on the application of instrumentation in the assessment and treatment of various communicative disorders. Appropriate measurement technique and interpretation of results will be covered. Focus on "hands-on" experience with current instrumentation and software will be emphasized. Credits: 3

SPA570 Contemporary Issues With the Hearing Impaired Frequency: B The course will assess contemporary issues related to testing, evaluating and resolving educational and social issues with hearing-impaired children and adults. Field experiences, guest speakers, selected video tapes and other varied course strategies will, where appropriate, be used in the course. Credits: 3

SPA575 Craniofacial Anomalies Frequency: B Etiology, symptomatology and management of communication disorders related to cleft lip, cleft palate and associated disorders. Focus on interdisciplinary management. Credits: 3

SPA585 Auditory Processing Disorders Frequency: B

Auditory Processing Disorders (APD) is a speciality area that remains novel to most professionals and students in speech pathology and audiology. This course will illustrate how APDs impact the accurate perception of auditory information, and readinglanguage skills. Course materials include the neurology of central auditory nervous system, definition/etiologies of APD, evaluation and remediation strategies, and how coexisting disorders such as Attention, Learning and Language Disorders may influence an individual's auditory processing abilities Credits: 3

SPA598 Voice Disorders Frequency: B Course will cover assessment and treatment strategies for benign, malignant and neurogenic vocal pathologies. Case study format will be emphasized. Credits: 3

COURSE

DESCRIPTIONS

SPA609 Independent Study Frequency: A Provides advanced graduate students the opportunity to work individually on problems of special concern not available through other course offerings under direction of qualified department member. Credits: 3

SPA610 Dysphagia Frequency: B Swallowing and associated disorders. Etiologies: anatomical/ physiological bases. Diagnostic and teatment approaches, including bedside evaluation, radiologic examination, feeding and nutrition. This course may be taken only once. Credits: 3

SPA620 Diagnostic Theories and Practices Frequency: B A study of assessment models, strategies, and rationales employed in speech-language pathology and audiology. An application of student's knowledge base to the assessment process. Credits: 3

SPA625 Topical Seminar in Speech Pathology and . Audiology Frequency: B Detailed study of selected topics in speech pathology or audiology. Content will change from semester to semester but will focus on a relatively narrow topic or issue of current interest. May be repeated for credit. Credits: 3

SPA632 Graduate Student Teaching Frequency: D Field based clinical practicum in a public school, rehabilitation center, BOCES or other appropriate educational setting. Cooperating Speech Language Pathologists supervise students in providing assessment and treatment services to clients with communication disorders. Credits: 6

Spanish,(SPAN)

SPAN115 Elementary Spanish I Frequency: A For students with no previous preparation. Study of fundamental speech patterns. Initial stress on listening comprehension and oral ability. Progressively greater emphasis on reading and writing skills. Credits: 3

SPAN116 Elementary Spanish II Frequency: A Continuation of SPAN 115. Further introduction to fundamental speech patterns. For students with one semester of college-level Spanish or equivalent. Stress on listening comprehension, oral ability reading and writing skills. Prerequisite Course: SPAN 115 Credits: 3

SPA599 Experimental Phonetics

Measurement, description, and

analysis of speech, its production

and perception. Students become

familiar with sound spectrograph

instrumentation typically employed

in research. Designed for students

SPA600 Phonological Theory

Intensive individualized study of

the literature in speech, language,

and related disciplines concerning

normal and deviant phonology.

SPA601 Stuttering Research

Intensive individualized study of

the literature regarding stuttering,

SPA603 Neuropathologies of

Speech and Language Frequency: B Lectures, films, assigned readings,

supervised observation in

related pathologies.

neuropathologies of aphasia,

SPA605 Advanced Clinical Methods and Practice

Frequency: A Externship in speech-language

pathology or audiology. Students

assigned to a health care facility,

hearing clinic. Students perform

rehabilitation center or speech and

diagnostics and therapy with patients at the facility under the supervision of

audiologist. Students enrolled in SPA

605 must have completed 21 hours

of academic credit and 9 credits of

SPA 502, for a total of 30 credit

hours. Permission of department.

SPA606 Research Design in

An introduction to research design

and statistical treatment to criticaliy

read and generate research. Study

of basic and special applications to

communication disorders. Emphasis

of applied research to the formation

and development of communication

Research Methodology - Thesis

One to 6 credits for thesis study.

an enrollment in excess of 6 hours

is acceptable for a Plan II master's

degree, but no more than 6 hours

are creditable toward the degree.

The minimum acceptable for the

disorders in clinical environments.

SPA607 Directed Studies in

Speech Pathology and

a licensed and ASHA certified staff

speech-language pathologist or

cerebral palsy, hearing loss, and

fluency, and related speech

as well as other research

in speech pathology and

audiology, and linguistics.

Frequency: B

Credits: 3

and Disorders

Frequency: B

Credits: 3

disorders.

Credits: 3

Credits: 3

Credits: 6

Audiology

Credits: 3

Research

Frequency: A

degree is 3 hours.

Credits: 1-6

Frequency: B

Frequency: B

179

SPAN215 Intermediate Spanish I Frequency: A Development of skills to understand written and spoken Spanish. Readings and grammar review. Prerequisite Courses: SPAN 116 Credits: 3

SPAN216 Intermediate Spanish II Frequency: A A continuation of SPAN 215 with gradually added emphasis on reading. Prerequisite Courses: SPAN 215 Credits: 3

SPAN307 Special Topics Frequency: D Topics in Spanish language and literature. Prerequisite Courses: SPAN 116 Credits: 3

SPAN315 Introduction to Readings in Hispanic Literature Frequency: B A study of literary works in the Spanish language in various genres, from Spain and Spanish America, including poetry, short story, essay, short novel and/lor excerpts from novels, and drama. Understanding of the literary works will include internal factors as well as external ones (the era, the place, the author's life and personality, etc.). Prerequisite Courses: SPAN 21 6 Credits: 3

SPAN317 Spanish Conversation Frequency: A Oral-aural drills, conversational exercises to provide practice in understanding and speaking Spanish. Emphasis on improving pronunciation and fluency. Prerequisite Courses: SPAN 216 Credits: 3

SPAN318 Spanish Composition Frequency: B Writing colloquial and formal Spanish. Translations and free compositions. Prerequisite Courses: SPAN 21 6 Credits: 3

SPAN319 Survey of Spanish Literature I Frequency: B Principal literary movements and writers studied against historical, social, and cultural backgrounds. Selected masterpieces through the 17th century. Outside readings. Prerequisite Courses: SPAN 315 Credits: 3

SPAN320 Survey of Spanish Literature II Frequency: B Principal literary movements and writers studied against historical, social, and cultural backgrounds. Selected masterpieces from the 17th century to the present. Outside readings. Prerequisite Courses: SPAN 31 5 Credits: 3

SPAN325 Survey of Spanish-American Literature Frequency: B Principal literary movements in Spanish America from Colonial period, with emphasis on post-Independence literature. Prerequisite Courses: SPAN 315 Credits: 3 SPAN328 Don Juan and Don Quixote Frequency: D A defining characteristic of Spanish literature is the creation of supremely powerful personalities The purpose of the course is to introduce the student to the development of two of these archetypes: Don Juan and Don Quixote. Discussion of the chronological development of these figures from the earliest representation to the present day, and discussion of those aspects which mark the works to be studied as products of particular cultures at specific historical moments Prerequisite Courses: SPAN 216 Credits: 3 SPAN377 Special Topics Frequency: D Topics in Spanish language and literature. Prerequisite Courses: SPAN 216 Credits: 3 SPAN388 Spanish Civilization and Culture Frequency: D A comprehensive introduction to aspects of Spanish civilization and culture: geography, history, social customs, political movements, literature and art. Credits: 3 SPAN400 Special Topics in Spanish Frequency: D Special areas in Spanish language, literature, or culture and civilization not covered by regular courses. Credits: 1-3 SPAN401 Imperial Spain Frequency: D Analysis of main currents of Spanish culture in Siglo de Oro through readings in history, sociology, and literature. Prerequisite Courses: SPAN 319 Credits: 3

SPAN408 Spanish for Educators Frequency: D Course designed for anyone in

education who communicates with Spanish speakers on a regular basis. Students will learn to converse in Spanish when dealing with issues of younger and older children, college and career guidance, discipline, educational administration, health care, parents and more. Students will gain an understanding of the Spanish vocabulary necessary to effectively and confidently speak in a classroom setting. An understanding of the historical. social, and cultural background of Mexican Americans, Puerto Ricans, Cuban Americans and Central/South Americans will be covered as well as the issues that ESL students deal with on a daily basis. Credits: 3

SPAN410 Directed Study Frequency: D Individual directed study of a particular area or topic in Spanish language or literature. Periodic meetings with instructor, writing of a substantial paper. Credits: 1-3

SPAN421 Advanced Spanish Phonetics and Diction Frequency: D Systematic study of Spanish phonetics and diction. Pronunciation drills, exercises in sound discrimination and transcription. Prerequisite Courses: SPAN 216 Credits: 3

SPAN423 Senior Seminar Frequency: B Allows upper-level students to supplement course offerings or probe more deeply into areas of their own interest. Credits: 3

SPAN424 Spanish Creative Writing Frequency: B Study of literary techniques. Direct composition in Spanish to encourage incorporation of these devices into student's own writing. Prerequisite Courses: SPAN 31 5 or SPAN 318 Credits: 3 SPAN425 Spanish-American

Fiction Frequency: D Prose fiction in Spanish America with special emphasis on 20th century authors. Prerequisite Courses: SPAN 324 or SPAN 325 Credits: 3 SPAN427 The Art and Craft of Translation Frequency: B Discussions of translation theory and problems of translation, followed by translation from Spanish to English, ending with translation from English to Spanish. Prerequisite Courses: SPAN 315, SPAN 318, and SPAN 320 or SPAN 325 Credits: 3

SPAN500 Special Topics Frequency: D Special areas in Spanish not covered by regular courses. Credits: 3

SPAN508 Spanish for Educators Frequency: D

Course designed for anyone in education who communicates with Spanish speakers on a regular basis. Students will learn to converse in Spanish when dealing with issues of younger and older children, college and career guidance, discipline, educational administration, health care, parents, and more. Student will gain an understanding of the Spanish vocabulary necessary to effectively and confidently speak in a classroom setting. Students will learn to understand the historical, social, and cultural background of Mexican Americans, Puerto Ricans, Cuban Americans and Central/South Americans. Understanding the issues that ESL students deal with on a daily basis will also be covered. Credits: 3

SPAN510 Directed Study in Spanish Frequency: D Individual supervised study of particular area or topic in any of the department's Spanish language or literature offerings. Periodic meetings with instructor and writing of a substantial paper. Permission of department

Credits: 1-3

required.

Special Studies (SPST)

SPST100 Freshman Seminar Frequency: B Open to freshman students and offered in the fall semester. Credits: 1

SPST101 Biology Study Skills Frequency: B This course, offered by the Educational Development Program, is designed to meet the needs of program participants enrolled in BIOL 111 Introduction to Biology. Intended for students with limited biological backgrounds, it enhances the understanding of biological skills in the following areas: Biological Chemistry, Energy, Genetics, Evolution, Physiology, Development, and Ecology. Co-requisite Courses: BIOL 111 Credits: 1 SPST107 Writing in the Arts and Sciences Frequency: B

Study of the writing and analysis process used for the explanatory and persuasive prose for the humanities, social sciences, and natural sciences. The course work focuses on coherence, development, organization, and conventions of writing papers in each discipline. Credits: 3

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SPST127 EDP Freshman Orientation I Frequency: B Designed to assist Educational Development Program students manage the demands of the college experience by helping them develop life management and study skills necessary to reach their academic and personal goals. Credits: 2

SPST132 Topics in Contemporary Science Recitation Frequency: A A one-credit recitation course mainly to supplement PHYS 101 Topics in Contemporaty Science for students from the Educational Development Program. Provides additional drill for solving simple physics problems to understand PHYS 101 topics. Co-requisite Courses: PHYS 101 Credits: 1

SPST137 Reading First Frequency:

Designed to help students with the working requirements of being an America Reads Tutor and to familiarize students with the public school setting, requirements, and expectations. The 15-hour training program is to help students develop the range of skills they may need to work with K-3 students. Prerequisite Courses: EDU 221 or EDU 250 or EDU 275 or ENGL 357 or SPA 250 Credits: 1

SPST138 Advanced Reading First

Frequency: D Designed to meet the needs of continuing America Reads tutors. Tutors will learn more about the reading process, learn to establish a tutoring goal and develop an activity to achieve that goal, and continue to gain experience in public school classrooms. Prerequisite Courses: SPST 137 Credits: I

SPST147 EDP Freshmen Orientation II Frequency: B A continuation of SPST 127 focusing on assisting students develop the basic tools necessary to engage in self-discovery, acquaint them with career planning and exploration of major and career choices. Credits: I

SPST201 Advanced Leadership Development Frequency: D A course in the study of leadership, introducing the student to tasks, strategies, and skills of effective leadership. Course activities will move the student from theory to the practical processes of leadership through the use of experiential learning, oral expression and effective teamwork on several projects. Credits: 3

Sound Recording Technology (SRT)

SRT105 Recording Techniques for Music Frequency: B A non-technical introduction to recording technology. Students will learn established recording techniques, how to make good audition tapes, the possibilities of digital editing, how to purchase the right equipment, and other recording essentials. Credits: 1

SRT200-201 Recording Practicum Frequency: B Applied instruction in basic audio techniques. Includes studio instruction in the use of microphones, loudspeakers, tape recorders. Taken concurrently with SRT 250-251. Open to majors only. Credits: 2

SRT250-251 Recording Techniques Frequency: B A two-semester course in recording, including audio measurements, use of loudspeakers, microphones, tape recorders, and mixing consoles. Emphasis on stereophony, live recording, and the development of high standards of audio craft. Open to majors only. Credits: 2

SRT300-301 Recording Practicum Frequency: B Applied instruction in multi-track recording, sound reinforcement, and audio systems analysis techniques. Includes in-depth study of mixing consoles, tape recorders, and signal processors. Students will record assigned projects and assist seniors in production projects. Taken concurrently with SRT 350-351. Open to majors only. Prerequisite Courses: SRT200 and SRT 201 and SRT 250 and SRT 251

SRT310 Studio Installation and Maintenance

Frequency: D Provides maximum hands-on experience in recording studio installation and maintenance. Students will learn to analyze signal flow and troubleshoot equipment with passive (resistors, capacitors, inductors) and active components (transistors and op-amps). Transmission lines are discussed by evaluating principles and standards of connectors and cabling for audio and video. Further emphasis is placed on the phenomenon of noise in audio/video circuits and transmission lines: evaluating and measuring noise in individual components and systems, and minimizing or eliminating noise through the principles of grounding, shielding and filtering. Students will learn soldering and wiring techniques as well as a variety of audio measurement procedures. Credits: 1

SRT320 Studio Installation and Maintenance Laboratory Frequency: D

This one semester, 1 credit-hour course, provides maximum hands-on experience in recording studio installation and maintenance. Students will learn to analyze signal flow and troubleshoot equipment with passive (resistors, capacitors, inductors) and active components (transistors and op-amps). Transmission lines are discussed by evaluating principles and standards of connectors and cabling for audio and video. Further emphasis is placed on the phenomenon of noise in measuring noise in individual components and systems, and minimizing or eliminating noise through the principles of grounding, shielding and filtering. Students will learn soldering and wiring techniques as well as a variety of audio measurement procedures. Prerequisite Courses: MATH 121 and MATH 123 and PHYS 123 Credits: 1

SRT350-351 Technology and Practices of the Recording Industry Frequency: B A two-semester course in multi-track recording technology, and Digital Signal Processing (DSP). Open to majors only. Prerequisite Courses: SRT 200 and SRT 201 and SRT 250 and SRT 251 Credits: 3

SRT450-451 Senior Seminar/Project Frequency: B Each student will prepare a professional quality recording production and a research paper. In addition, the seminar will address areas of professional concern, including career development and survival skills, current studio developments, and elements of style in recording. open to majors only. Prerequisite Courses: SRT 300 and SRT 301 and SRT 350 and SRT 351 Credits: 2

SRT460-461 Independent Study Frequency: A Studies in studio maintenance, booking, traffic management, and research are available on a limited basis. Maximum of 6 hours of MUS, MUED, or SRT independent study. Open to majors only. Credits: 2

SRT470 Studio Supervision Frequency: D Students supervise recording studio inventory and use. Open to majors only. Permission of instructor required. Credits: 2

SRT480 Internship Frequency: A A 15-week, full-time work position in a facility appropriate for the individual student's goals. Duties are specified by college and sponsoring firm. Open to majors only. Credits: 1-15

Statistics (STAT)

STAT150 Statistical Ideas Frequency: B Introduction to the field of statistics, including sampling, experiments, measurement, descriptive statistics, probability, inference, correlation, regression and prediction. Emphasis on data and concepts rather than on calculations and mathematical theory. Not open to students who have completed a ZOO-level statistics course with a grade of Cor better. Prerequisite: NYS Regents Course III or Math 104. Credits: 3

STAT200 Statistical Methods Frequency: A An introductory study of statistical methods with applications to business, economics, education, and the social sciences. Topics covered include: descriptive statistics and graphs, probability and probability distributions, estimation, confidence interval, hypothesis testing and linear regression. This course focuses on when to use each of the different methods. Prerequisites: NYS Regents Course III or equivalent, or MATH 104. Credits: 3 STAT250 Statistics for

Scientists Frequency: D Introduction to statistical methods with special emphasis on uses in the natural sciences. Topics will include descriptive statistics, data collection, probability, probability distributions, confidence intervals, hypothesis testing, regression, and analysis of variance. The course will include use of analytical labs and statistical computer packages. Prerequisite: One semester of college mathematics. Credits: 3

STAT350 Probability and Statistics Frequency: B Basics of probability; descriptive statistics; discrete and continuous distributions; confidence intervals and tests of hypotheses concerning means, variances, and proportions: simple linear regression; statistical software. Prerequisite/course: MATH 123, MATH 210 recommended Credits: 3

STAT351 Applied Statistics Frequency: C Topics chosen from multiple regression: analysis of variance: sampling techniques; time series; nonparametric methods; applications to quality control. A statistical software package will be used extensively. Prerequisite Courses: STAT 350 Credits: 3 STAT355 Mathematical Statistics Frequency: C Moments and moment-generating functions, conditional expectations, multivariate binomial and normal distributions, functions of random variables, sampling distributions, decision theory, theory of estimation and hypothesis testing. Prerequisite Courses: MATH 223 and STAT 350 Credits: 3

STAT460 Risk Management for Science Actuarial Frequency: B Development of fundamental mathematical tools and language of quantitative risk management. Multivariate probability distributions including joint, conditional and marginal distributions, probabilities, moments, variance and covariance Prerequisite Courses: MATH 223 and STAT 350 Credits: 2

Theatre Arts (THEA)

THEA100 Special Topics Frequency: D Special topics in theatre and dance. Credits: .5 - 3

THEA101 Theatre Practice Frequency: A Laboratory in performance or production involving applications of theatre techniques to the various aspects of departmental productions. Credits: 1

THEA102 Theatre Practice Frequency: A Laboratory in performance of production involving applications of theatre techniques to the various aspects of departmental productions. Credits: 1

THEA110 Practicum Frequency: D Areas of theatre not covered in regular curriculum such as travel courses, practical experiences in the field, etc. May be repeated for credit. Permission of instructor. Credits: .5

THEA114 Introduction to the Performing Arts Frequency: B A broad introduction to the Performing Arts including an historical perspective elements of the performer's craft and repertoire, representative contributors to each Performing Art and the role of the audience member. The Performing Arts areas include Theatre, Music, Dance, Musical Theatre and Opera. Attendance at five Performing Arts events is required. Credits: 3 THEA117 Script Analysis Frequency: B Explores the process in evaluating/discovering production and performance values in a playscript. Credits: 3

THEA121 Introduction to Technical Theatre Frequency: B One-semester course covering terminology and processes of stage production including stagecraft, materials, lighting, sound, properties, costumes, etc. Lecture and laboratory participation. Concurrent enrollment in MEA 101 by majors and minors strongly suggested. Written production critiques required. Credits: 3

THEA123 Introduction to Technical Production Frequency: B Explores the responsibility of technical personnel, safety and organization of the backstage and scene shop, stage rigging, drafting for the stage, scenic materials and hardware. Practical work on department productions may be required. Lab fee. Prerequisite Courses: THEA 121 Credits: 3 THEA130 Acting for Non-Majors Frequency: B Basic techniques of acting with emphasis on improvisation, script analysis and scene study. Attendance at campus theatrical events required. Credits: 3

THEA131 Acting Studio: Improvisation Frequency: B Introduction to basic craft skills of acting with emphasis on self-awareness and discovery, spontaneity, and improvisation. B.F.A. Acting and Musical Theatre majors only. Credits: 3

THEA132 Acting Studio: Character Study Frequency: B Introduction to theory and practice of the basic principles of Stanislavski realism with emphasis on character exploration and analysis. B.F.A. Acting and Musical Theatre majors only. Prerequisite Courses: THEA 131 Credits: 3

THEA133 Introduction to Acting Frequency: B Basic craft skills of acting with emphasis on improvisation, character study, analysis and scene work. B.A.Theatre Arts majors and minors only. Credits: 3

THEA140 Stage Dialects Frequency: C Acquisition of basic skills by the performer or director in the use of major dialects. B.F.A. Acting and Musical Theatre majors only. Credits: 3 Frequency: B Continuation of THEA 101-102 Credits: 1 THEA202 Theatre Practice Frequency: B Continuation of THEA 101-102. Credits: 1 THEA220 Makeup Frequency: A Design, selection, application, and evaluation of stage makeup. Color theory and painting technique are stressed. Theatre Arts majors only. Credits: 3 THEA221 Computer Drawing and Design Frequency: B Introduces the student to the use of discipline-specific software programs and peripheral hardware used in the creation of designs and preparation of drawings used in technical production and for scenic, costume and lighting design. This includes in-depth training in Computer Aided Drafting techniques, and the study of the CAD Program Vectorworks. 2D drafting will be covered with an introduction to drawing in 30. Prerequisite Courses: MEA 123 (may be concurrently enrolled) Credits: 3

THEA201 Theatre Practice

THEA222 Stagecraft I Frequency: B Drafting and construction of soft goods, platforms and wagons, framed scenery, stairs, cornice and trim. Further refinement of shop skills. Practical work on productions may be required. Lab fee. B.F.A. Production Design majors only. Prerequisite Courses: THEA 123 Credits: 3

THEA223 Stage Lighting I Frequency: B Mechanics of stage lighting, involving basic electricity, color theory, instrumentation, distribution and control. Possibility of practical application on departmental productions. Prerequisite Courses: THEA 123 Credits: 3

THEA226 Scene Painting I Frequency: B Color theory, preparation of painting surfaces, and basic painting techniques as they pertain to the theatre. B.F.A. Production Design majors only. Prerequisite Courses: THEA 123 Credits: 3

THEA228 Costume Crafts Frequency: B Laboratory exploration of basic costume construction techniques. Prerequisite Courses: THEA 123 Credits: 3

THEA229 Computer Aided Drafting Lab Frequency: A Non credit lab allowing the B.F.A. Technical Production and Design Student access to the theatre CAD Lab. Open to B.F.A. Production Design majors only. Credits: 0 Frequency: B This course will present the fundamental principles of approaching the creation of a character on stage using the techniques of Stanislavski realism. B.A. Theatre Arts majors only. Prerequisite Courses: THEA 133 Credits: 3 THEA231 Acting Studio: Scene Study I Frequency: B Skills and techniques for role analysis and performance in realistic plays. B.F.A. Acting and Musical Theatre majors only. Prerequisite Courses: THEA 132 Credits: 3 THEA232 Acting Studio: Scene Study II Frequency: B Skills and techniques for role

THEA230 Introduction to Scene

Study

analysis and performance in realistic plays. Prerequisite Courses: THEA 231 Credits: 3

THEA242 Acting Studio: Introduction to Voice and Movement I Frequency: B Designed to support the actor in freeing the voice/body and imagination for creative response. Physical/vocal awareness and ability are enhanced through the exploration of relaxation, alignment, flexibility, strength, breath, sound, and resonance. Credits: 3

THEA243 Acting Studio: Introduction to Voice and Movement II Frequency: B A continuation of THEA 242 in supporting the actor in freeing the voice/body and imagination for creative response. Exercises to reinforce basic skills and further develop the actor's physical and vocal range, power, flexibility, and articulation.

Credits: 3 THEA245 Sound for the Theatre

Frequency: D Descriptions: Study of the basic technical and artistic elements of sound for the theatre. Areas of study include: basic sound systems, electricity, recording techniques, script analysis for sound design, principles of sound design and the controllable qualities of sound. Each will be studied through class lectures, practical examples, and projects. Prerequisite Course: THEA 123 Credits: 3

THEA301-302 Theatre Practice Frequency: B Continuation of TA 201-202. Credits: 1 THEA303 Rendering Technique I Frequency: B Explores the graphic media and drawing techniques used by the designer in preparing drawings for the theatre. Prerequisite Courses: THEA 123 Credits: 1

THEA304 Rendering Technique II Frequency: B Continuation of THEA 303. Explores the graphic media and drawing techniques used by the designer in preparing drawings for the theatre. Prerequisite Courses: THEA 123 Credits: 1

THEA305 Rendering Technique III Frequency: B Continuation of THEA 304. Explores the graphic media and drawing techniques used by the designer in preparing drawings for the theatre. Prerequisite Courses: THEA 123 Credits: 1 THEA315 The Dramatic

Imagination Frequency: D Design students study the nature of the relationship between playscripts and theatrical designs through script and text analysis, literary criticism and research. Exploration of how dialogue and themes can be visualized through design. B.F.A. Production Design majors only; concurrent enrollment in THEA 326 and 327. Credits: 3

THEA320 Advanced Makeup Frequency: D Design and application of special effects, 3-D prosthetics, and selected advanced makeup techniques. Prerequisite Courses: THEA 220 Credits: 3

THEA322 Stagecraft II Frequency: B Drafthg and construction of dimensional scenery. Planning, drafting and mounting the full production. Moving the multi-set show. Practical work on productions may be required. Lab fee. B.F.A. Production Design majors only. Prerequisite Courses: THEA 222 Credits: 3

THEA324 Stage Lighting II Frequency: B Principles of lighting design and color use for stage through script analysis and practical projects. Opportunity to design a production as part of class work. B.F.A. Production Design majors only. Prerequisite Courses: THEA 223 Credits: 3

THEA325 History of Fashion Frequency: B Chronological survey of clothing and fashion: their sociological and artistic implications from the Egyptians to the 20th century. Credits: 3 THEA326 Scene Design I Frequency: B Principles, procedures, and development of scene design: primary emphasis on technical aspects of design. Students must enroll in THEA 303, 304 or 305 simultaneously. B.F.A. Production Design majors only. Prerequisite Courses: THEA 322 Credits: 3

THEA327 Costume Design I Frequency: B Costume design methods and concepts. Students must enroll in THEA 303, 304 or 305 simultaneously. B.F.A. Production Design majors only. Prerequisite Courses: THEA 325 Credits: 3

THEA328 Costume Design II Frequency: B Continuation of THEA 327: development of more complicated and sophisticated concepts. Students must enroll in THEA 303, 304 or 305 simultaneously. B.F.A. Production Design majors only. Prerequisite Courses: THEA 327 Credits: 3

THEA329 Flat Patterning Frequency: B Flat pattern techniques as applied to the costume cutter. Use of dopers, methodology, and interpretation of sketches are emphasized. B.F.A. Production Design majors only. Prerequisite Courses: THEA 228 Credits: 3

THEA331 Acting Studio: Styles Frequency: C Introduction to various acting tools for creating and sustaining characters and action in elevated and poetic texts from major periods of theatre history. Emphasis on ability to approach historical periods and genres while remaining intimately connected to personal truth. Prerequisite Courses: THEA 232 Credits: 3

THEA333 Acting Studio: Audition Techniques Frequency: C Intensive study of skills needed by actors to increase their marketability in today's theatre. B.F.A. Acting and Musical Theatre majors only. Prerequisite Courses: THEA 232 Credits: 3 THEA334 Computer Drawing

and Design II Frequency: C Exploration in designing and drafting for the stage on the computer. This course will focus on the design elements and will include some drafting. Programs explored in this class will be Photo Shop, Deep Paint, Renderworks and others. A major portion of the class will focus on rendering methods for the computer. B.F.A. Production majors only. Credits: 3

THEA338 Special Topics Frequency: D Study of selected areas of theatre arts not covered in regular curricular program. May be repeated for credit. Permission of instructor required. Credits: 1-3 THEA342 Acting Studio: Stage Voice I Frequency: C Explores additional methods to increase flexibility and range in speaking with an emphasis on heightened responsiveness to imagery and rhythms. Actors will develop their ability to orchestrate and sustain more complex texts through class meetings and tutorials Prerequisite Courses: THEA 242 and THEA 243 Credits: 3 THEA343 Acting Studio: Stage Voice II Frequency: C Provides the means whereby the actor may maximize his or her vocal capabilities. Actors will be introduced to voice-over work and receive individual voice coaching in support of their performance in productions and lab. Prerequisite Courses: THEA 342 Credits: 3 THEA353 History of Musical Theatre Frequency: C Development of the theatrical genre known as musical theatre. Special emphasis on musical comedy roots in nineteenth century America through the present. Credits: 3 THEA361 Acting Studio: Stage Movement I Frequency: C Explores additional methods to increase precision and range of movement with an emphasis on physical character work and unarmed stage combat. Prerequisite Courses: THEA 243 Credits: 3 THEA362 Acting Studio: Stage Movement II Frequency: C , Explores additional methods to increase precision and range of movement with an emphasis on physical character work and armed stage combat. Prerequisite Courses: THEA 361 Credits: 3 THEA381 Technical Theatre Seminar Frequency: A Discussion seminar on problems and procedures of mounting theatrical productions. Includes scheduling personnel, weekly

rehearsals and other pertinent current production needs. Does not apply to the required hours for major in Theatre Arts. May be repeated Credits: 0.5 DEOOR

COURSE

DESCRIPTIONS

THEA401-402 Theatre Practice Frequency: B Continuation of THEA 301-302. Credits: 1

THEA420 Special Studies in Technical Theatre Frequency: B Seminar and laboratory experience exploring a variety of processes and techniques in depth. B.F.A. Production Design majors only. Credits: 3

THEA426 Scene Design II Frequency: B Continuation of Scene Design I with specific emphasis on artistic requirements of the production. B.F.A. Production Design majors only. Prerequisite Courses: THEA 326 Credits: 3

THEA427 Scene Painting II Frequency: B An intensive laboratory experience exploring advanced techniques in painting, dimensional texture and surface treatments. May require practical work on productions. B.F.A. Production Design majors only. Prerequisite Courses: THEA 226 Credits: 3 THEA432 Acting Studio: Musical Theatre Styles Frequency: B Advanced scene study and techniques for integrating all resources of the singing actor in

musical theatre. B.F.A. Musical Theatre majors only. Prerequisite Courses: THEA 232 Credits: 3

THEA435 Rehearsal and Performance Frequency: A Application of advanced techniques in preparation for studio and major productions. Credits: 0

THEA436 Design/Technical Production Frequency: A Application of advanced techniques in preparation for studio and major productions. Credits: 0

THEA441 Directing I Frequency: A Director's functions and responsibilities including play selection, auditioning/casting, staging techniques and script analysis using the motivational unit as a basis of approach. Emphasis on preparation and presentation of a one-act play. Theatre Arts majors only with junior or senior standing. Credits: 3 THEA442 Directing I1 Frequency: D Continuation of THEA 441: emphasis on theories of directing, as well as concerns and responsibilities of the director in productions involving period styles and/or alternative forms of staging. Theatre Arts majors only. Prerequisite Courses: THEA 441 Credits: 3

THEA451 History of the Theatre I Frequency: B A survey of theatre history from pre-Greek to the 18th Century. Performance and production elements in all ages will be covered. Junior or Senior standing. Credits: 3

THEA452 History of the Theatre II Frequency: B A survey of theatre history from 18th century to present. Performance and production elements in all ages will be covered. Junior or Senior standing. Credits: 3

THEA460 Theatre Organization and Management Frequency: B Theatre management including philosophy, management procedures, budgets, publicity/promotion, ticket office and house management procedures for educational, community and professional resident theatres. Theatre Arts majors or permission of instructor. Credits: 3

THEA481 Senior Seminar Frequency: D Topics vary from semester to semester. May be repeated for credit. Permission of instructor required. Credits: 1-3

THEA482 Directed Study Frequency: A Intensive individual study of some particular aspect of theatre involving preparation of a paper or project in support of the findings. Request for enrollment must be made in the form of a written proposal prior to the end of the second week of the semester. May be repeated for credit. Permission of department required. Credits: 1-3

THEA490 Professional Theatre Intern Frequency: A Approved and supervised work-training experience in professional theatre company. Permission of department required. Credits: 1 - 15 THEA499 Performance/Production Seminar Frequency: A Development and public presentation of a creative project as a senior recital. Senior standing: B.F.A. Acting/Production Design majors only. Credits: 3

THEA530-531 Selected Studies in Theatre Arts Frequency: D In-depth study of various specific areas in the theatre, either literature or production. Permission of department required. Credits: 1-12

Women's Studies (WOST)

WOST201 Intro. to Women's Studies Frequency: B Interdisciplinary study of the social construction of gender and its relationship to class, race, age, ethnicity, nationality and sexual identity. Analysis of the causes and implications for the changing definition of women in the Contemporary world, especially in the United States. Credits: 3

WOST203 Chicana Writers/ Visual Artists Frequency: D Who is the Virgin of Guadalupe? When was the Mexican Revolution? What is a "Zootsuit"? Explore these questions and more in this interdisciplinary course taught in English In this class, students will become familiar with Chicana-Mexican American history and culture through installation art, mural art, altar designs, and paintings by artists such as Frida Kahlo, Judy Baca, Amalia Mesa-Bains, and Yolanda Lopez among others. Students will also discuss issues of race, class, gender, and sexuality through texts by Chicana writers Gloria Anzaldua, Ana Castillo, Sandra Cisneros, and Demetria Martinez. Credits: 3

WOST255 Psychology of Women Frequency: D An examination of the biological psychological and sociological factors that shape women's lives. Attention to the intersection of gender with ethnicity, sexual orientation, and social class. Specific topics include theories of gender development, images of women in the media, work, childbirth and motherhood, violence, physical and mental health. Prerequisite Courses: PSY 129 WOST 201 Credits: 3

WOST301 Feminist Theory Frequency: B In-depth critical exploration of selected theories to explain the sources of women's roles in society. A multidisciplinary approach will be employed to account for the social, economic, political and cultural status of women in contemporary societies. Credits: 3

WOST302 Sex and Gender Frequency: B Description and analysis of sex and gender roles and relationships from a variety of societies at different levels of socio-cultural complexity. Note: also listed as ANTH 300/SO 306. Prerequisite Courses: ANTH 115 SOC 116 Credits: 3

WOST304 Latina Literary and Cultural Studies Frequency: C Study of contemporary Latina representations through the examination of literature, film, mass media, music, ethnography. Focus of course is on U.S. Latina and transnational Latina identities. Credits: 3

WOST336 African American History Women's Frequency: C Explores the history of women of African descent in the Americas with a particular focus on the United States. Covers black women's experiences from their African origins, through the Middle Passsage, in enslavement, and in freedom. Issues addressed include labor, the black family, cultural expression, and radical identity (in comparative perspective). Credits: 3

WOST373 Gender and Communication Frequency: D Using a variety of theoretical models and critical approaches, students examine everyday communication practices to identify how gender, communication, and culture create a complex and dynamic web of meaning with significant implications for individuals and society. Prerequisite Courses: COMM 101 WOST 201 Credits: 3 WOST377 Special Topics Frequency: D Variable-content, sophomore/junior level course.

sophomore/junior level course Topics announced in Course Offering Bulletin when offered. Credits: 3 WOST386 Women and Film Frequency: C A study of women filmakers and their uses of documentary, experimental, and narrative forms. Particular focus on the role of the female spectator, the redefinition of traditional gender roles through film, and the (re)production of knowledge about women and femininity through the cinematic apparatus. Credits: 3

WOST401 Feminist Practice Frequency: A Directed study of student's own area of interest within women's studies, serving as a capstone to the interdisciplinary experience of the minor. The capstone may be a final project, undergraduate thesis, or community-based internship. Credits: 3

WOST490 Independent Study Frequency: A For non-Women's Studies minors Only. Independent Study of an issue using gender as a primary category of analysis. Students must find an instructor willing to supervise the project - all disciplines are appropriate. Student's must develop a proposal, obtain necessary approval of instructor and obtain final approval from the coordinator of Women's Studies. Credits: 1-3

GENERAL ACADEMIC INFORMATION

The typical undergraduate program at SUNY Fredonia consists of four groups of courses: (1) the College Core Curriculum, consisting of courses in various branches of learning that are focused upon developing a range of skills and are required of all students, whatever their principal interest; (2) the courses required to complete a departmental or inter-departmental major; (3) supporting courses in subjects related to the major field, as well as courses which may be required for teacher certification; and (4) electives necessary to complete the minimum of 120 semester hours of credit required for the baccalaureate degree. The student may also take special concentrations, minors, and second majors.

The basic organizational unit of the college faculty is the academic department, which brings together people with similar academic backgrounds and related interests in teaching and research. For information on academic departments and majors, see the first section of this catalog.

On the graduate level, the college offers certification programs and master's degrees in a variety of fields. For details about post-baccalaureate work, see the Graduate section of this catalog on page 81.

College offices generally are open from 8:30 a.m. until 5 p.m. Monday through Friday during the fall and spring semesters, and from 8 a.m. until 4 p.m. during the summer. Exceptions to this are extended hours for some student service offices and Reed Library.

General Education

The State University of New York is charged with furthering human development and exploring and pursuing human potential in the broadest sense. In general, the university performs this function by acting as a center for the development and dissemination of knowledge, arts, and skills. In particular, it offers an opportunity for concentrated intellectual development and training. As part of the university, SUNY Fredonia pursues these goals with its own unique resources.

The college seeks to provide students with both a specialized and a general education. The specialized work prepares students in particular fields of knowledge for careers, professions, and other specific goals. But knowledge, like life, is a seamless fabric that cannot be cut into separate pieces. Any special area of knowledge requires a larger context to become fully meaningful. It is the purpose of general education to provide such a context, to help students find a sense of direction and become better able to cope with a changing world, regardless of their specializations.

The object of a general education is to further the development of a total human being who seeks to relate learning and living, ideas and actions. Seen in this way, general education seeks to provide the basis for responsible action, and to develop the habit of questioning and of using questioning as a creative tool.

The ability to discover and act upon their own values is a basic potential of human beings. In choosing the values by which they live, rather than having values thrust upon them, individuals create themselves. However, the freedom to choose and create comes into being only for people who have developed self-awareness, an ability to think, a minimal body of knowledge, and aesthetic sensitivity. General education seeks to help students develop all of these. General education should help students understand human society and their relationship to it. But it should also enable students to develop as individuals with a fundamental philosophy or basic world view that is consciously personal, yet based on an awareness of culture, history, and society. Consequently, general education seeks to facilitate the development of a conscious philosophy or worldview, and to develop the skills by which such fundamental beliefs can be articulated clearly.

Students complete the minimal general education requirements at SUNY Fredonia in the framework of the College Core Curriculum. The College Core Curriculum requirements apply to all freshmen admitted Fall 2001 and later and to all transfer students admitted Fall 2002 or later.

College Core Curriculum (CCC)

Approved courses, distributed as follows,

Cat	tegory I	Hours
1.	Basic Written Communication	3
2.	Mathematics/Quantitative Reasoning	3
3.	Foreign Languages	3-6
	(Students who have scored 85 or above on a forei language Regents Checkpoint B exam have fulfille this requirement.) Beginning Fall 2004 for freshme and Fall 2006 for transfers, students enrolled in programs granting the B.A. degree have a 6 credit foreign language requirement. All other students h a 3 credit hour foreign language requirement.	ed en hour
4.	The Arts	3
5.	The Humanities	3
6.	Social Sciences	6
	(Two courses from different dissiplines, only one r	

(Two courses from different disciplines; only one may be from Business Administration, Education, History, Communication, or Speech)

7. Natural Sciences 6

(Two courses from different disciplines; only one may be from Mathematics or Computer Science)

8. American History 3

(Students who have scored below 85 on the American History Regents Test must take History 105 or 106 or other American History narrative; all others may take any course in this category.)

- 9. Western Civilization 3
- 10. World History or Non-Western Civilization 3
- 11. Speaking-Intensive Requirement 0-6

(One course must be in the major, both can be. Courses satisfying any category above will satisfy this requirement if they are also certified as speaking intensive.)

12. Upper-Level Requirement 6

(Students must either (a) complete two courses in this category outside of their major discipline; or (b) complete a second major, minor, or concentration, education certification, or accredited study-abroad program. The second major, minor, or concentration cannot be in the same discipline as the primary major.)

42-51

Transfer students may receive credit in Categories 1 through 11 of the College Core Curriculum for similar courses taken at other colleges or approved advanced placement courses and exams. Any course approved for the SUNY General Education Requirements from a SUNY college or university will be accepted as a course in the corresponding Fredonia College Core Curriculum Category. Course(s) in Category 12 must be taken at SUNY Fredonia. Questions pertaining to the College Core Curriculum may be directed to Dr. Leonard Faulk, Associate Vice President for Academic Affairs, 810 Maytum Hall, (716) 673-3808.

Academic Advising

The variety of programs both in major departments and in interdisciplinary areas at SUNY Fredonia requires that every student meet with an academic advisor periodically to review progress and plan his or her academic future. It is particularly important for a student to be aware of requirements for graduation including College Core Curriculum requirements and those necessary to complete a chosen degree program.

Academic advisors can help students plan educational programs and keep up with new courses and programs, but students should not expect advisors to be knowledgeable about the content in detail of the many individual courses throughout the college and the teaching methods and evaluation procedures of the many individual teachers. Further, students are ultimately responsible for adhering to academic policies as stated in this catalog and determining that they have met degree requirements (including general education, major, and minor or concentration requirements).

At the orientation program, new students have an opportunity to discuss educational objectives with an advisor who will be knowledgeable in an area of preference and who will help students plan a schedule for the first semester. Shortly after the start of the first semester, students are assigned an academic advisor.

Students are required to make an appointment with their advisor prior to course selection, to discuss their academic future, review their mid-semester grade report, and plan a program of study for the second semester. After that meeting, students should meet with their academic advisor at least once each semester prior to course selection.

Academic advising will be successful and help students only if they actively seek advice about their education at SUNY Fredonia. Advising is one of the obligations of the college teaching profession. Students should not feel they are imposing on their advisors by discussing academic progress more than the minimum requirement of once each Semester. Students are encouraged to seek advice as Often as needed. It is One Of the marks of a Successful student. Furthermore, if academic advising is to be successful, students should have confidence in their advisors. If students wish to change advisors, they should contact their department chairperson who will make a new assignment mutually agreeable to students and their new academic advisor.

Questions pertaining to academic advising may be directed to the Academic Advising Center, 614 Maytum Hall.

Liberal Arts

Liberal Arts students are those students who are exploring the major options offered at Fredonia. Liberal Arts is not a major. Exploration will occur as the student takes courses that fulfill the College Core Curriculum required of all students. Declaration of a major is not required until the second semester of the sophomore year, the semester in which one customarily completes 60 credit hours. Most students decide on their major during the sophomore year, prior to reaching 60 credit hours. The Associate Dean for Liberal Arts is the chairperson for Liberal Arts students and the Director of Academic Advising, 614 Maytum Hall. The Academic Advising Center assigns a student's advisor, who may be a faculty member or a qualified member of the professional staff.

The Liberal Arts Freshman Year Experience is a mandatory, yearlong program designed to assist Liberal Arts students in their exploration and selection of a suitable major. The program has three major components: the Liberal Arts Advisement System, including Liberal Arts Liaisons; the Liberal Arts Freshman Seminar in the fall; and a Major and Career Exploration Course in the spring. For more information, contact the Associate Dean for Liberal Arts in the Academic Advising Center.

Fredonia in 4

Fredonia'S formal response to students who require assurances that they will graduate in four Years began with the freshman class entering in the fall of 1997.

Fredonia in 4 is a four-year guarantee program for first-time freshmen by which the college pledges to adhere to a commonly understood agreement with our students to schedule sufficient class offerings, provide required courses or suitable substitutes as determined by the department, and ensure qualified academic advising.

With the assistance of the Academic Advising Center, faculty and staff advisors are able to ensure that students who are willing to adhere to the requirements for doing so, will graduate within four years. The spirit of the four-year agreement at Fredonia is to emphasize the college's Commitment to provide all the essential ingredients that enable a student to graduate with a degree in four years. The rest is up to the student.

For more information about *Fredonia in 4*, students should contact the chairperson of their major department, or contact the Academic Advising Center, 614 Maytum Hall.

3-1-3 Program

The SUNY Fredonia 3-1-3 program provides an opportunity for some high school seniors within driving distance of the college to take courses at Fredonia while they still have the close support of family and high school. The 3-1-3 Program is a time-shortened, combined high school and college course of study that can lead to a B.A. or B.S. degree in three years after high school graduation. This is possible because the college gives credit for the successful completion of selected high school courses and the high school allows successfully completed college English and social science courses to count toward the high school diploma. Therefore, the name 3-1 -3 means three years of high school, three years of college and one transitional year during which the student is enrolled simultaneously at his/her high school and at the college.

3-1-3 students are selected by the SUNY Fredonia admissions staff on the same basis as regularly admitted students.

Pre-Professional Programs

Students may arrange pre-professional programs to prepare for specialized training in engineering: health related areas such as dentistry, medicine, optometry, and veterinary medicine: or law. Those students seeking admission into professional schools should obtain the catalog of the institution they hope ultimately to enter and develop their college program, insofar as possible, according to the listed entrance requirements.

Advisement on premedical, pre-dental, and other health related programs may be obtained from the Biomedical Professions Council through the Department of Biology, located in Jewett Hall. Students interested in these careers are encouraged to register with the council through the biology department as early as possible to insure appropriate advising on matters of course and major choices, and application procedures to professional school. For information on Pre-Medicine and Allied Sciences, see page 61. Information on law may be obtained from the Pre-Law Advisory Committee through the Department of Political Science (for information on Legal Studies, refer to the section on page 43): and on engineering from the Director of the Cooperative Engineering Program.

Internships

Internships are an opportunity for students to learn from, and receive credit for, experience gained by working with an appropriate agency or office in the public or private sector. Student interns are under the dual supervision of a faculty member or sponsor and a representative of the organization in which they are working. Internships offer a student the opportunity to explore career options, test theories learned in the classroom, develop an understanding of the discipline required in the world of work, and develop interpersonal skills.

Internships are open to any student registered at Fredonia who has completed at least 30 credit hours and has a minimum GPA of 2.0. Internships may be taken in a student's major or in another department.

Nearly all departments on the Fredonia campus offer internships. Placements are available in a variety of offices in Washington, D.C. through the Washington Semester program; and with the New York State Assembly and Senate. Other placement areas include art and photography, biology and environmental science, business and accounting, chemistry, communication, computer science, counseling, law enforcement and legal offices, journalism and public relations, health administration, sound recording technology, and theatre arts. The Internship Office has a number of sources of information regarding past placements held by Fredonia students and other potential internships locally, nationally, and internationally. Under guidelines approved by the Fredonia College Senate, an internship must be approved by a faculty sponsor and credit will be determined in part by the nature of the experience and the length of time involved. For further information, students should see the *Internship Handbook.*

Students may earn up to 15 hours of credit per semester for an internship and may count a maximum of 24 hours of internship credit toward the 120 hours required for an undergraduate degree. Students taking part in an internship must complete a Learning Contract and have it approved by their sponsor and the Internship Office. In addition, they must register for the appropriate course and pay the normal registration fee to receive credit. For more information, contact the Internship Office at (716) 673-3451.

Distance Learning

SUNY Fredonia is committed to making alternative learning opportunities available to its students either through the Internet via the World Wide Web or two-way interactive video. Additional information is available from the college's Office of Lifelong Learning, LoGrasso Hall.

International Education

Fredonia students interested in international study can chose from the Study Abroad or Student Exchange programs:

Study Abroad. The State University of New York offers 350 overseas programs in 60 different countries: in North and South America, Africa, Asia, Western and Eastern Europe, Australia and New Zealand. They range from two or three-week intensive courses to a semester or entire academic year abroad. Students can choose courses in over 100 subjects from aboriginal studies or aerospace engineering to western philosophy or women's studies. Many programs concentrate on language learning and are conducted in the host country's language, but others are offered partially or completely in English. Study Abroad programs are open, with some exceptions, to all SUNY and non-SUNY students, from first year to graduate level. Usually, undergraduates study abroad during their junior year, but well-prepared sophomores and occasionally freshmen are eligible. Interested students are encouraged to contact Fredonia's Office of International Education to help them to determine when and where to go.

Cost is comparable to other highly-rated study abroad programs in U.S. public and private colleges. Program costs are usually only slightly higher than on-campus costs of tuition, room and board (excluding international air fare). In some cases, expenses are actually less than they would be on campus. Students pay SUNY tuition (in-state or out-of-state, depending on the student's residency status) plus costs that vary from program to program. Most financial aid can be applied to overseas study except for some program costs and fees. Students are urged to check with Fredonia's Office of Financial Aid and also with the Office of International Education.

Student Exchange. These programs are offered by SUNY Fredonia in Europe and the Far East. Currently, Fredonia has formal student exchange agreements with Aichi University in Japan for an intersession, semester or academic year; with the American University in Bulgaria for a semester or academic year; with University of Oviedo in Oviedo, Spain, for a semester or academic year; and in the United Kingdom, for a five-week student teaching experience in Swansea Institute of Higher Education in Wales and Rolle Faculty College of Education, University of Plymouth, England.

In addition, the Office of International Education coordinates services for students from other countries who choose to study in Fredonia. Assistance with course selection and immigration matters, as well as acculturation, are provided.

One of the International Education office's top priorities is program development in other countries. The college is currently pursuing agreements in such locations as Europe, South America, and Asia. Also available are short-term, credit-free experiences; an example would be traveling to Japan for a few weeks for an intensive study of the language.

While Fredonia students are away, the International Education office helps coordinate course registration and on-campus housing needs for the semester following their return. Students also receive periodic mailings and the school newspaper.

To apply, students decide the country they would like to study in, talk to their academic advisor about classes they might want to take abroad for academic credit toward their major, and pick up application forms from the International Education office.

A semester or full year studying abroad can be among the most rewarding experiences a student can have; living in a new culture, meeting people and learning their language. In addition, students discover how U.S. customs, traditions, and values appear from a foreign vantage point. Because of the increasing interdependence of the world's regions, an international education is becoming the indispensable hallmark of a well-educated person, preparing students for citizenship and a bright exciting career.

For more information, contact the Office of International Education at (716) 673-3451.

Grants Administration/Research Services Office

Fredonia's Grants Administration/Research Services Office helps to identify potential external sources of funding for research and special projects, assists with proposal and budget development and preparation, establishes audit and control procedures, monitors expenses, and aids in other ways necessary to obtaining and administering external grants and contracts.

Fredonia values the kind of faculty/student interactions that reveal the process of discovery and creativity that is basic to the scholarly process. The promotion of research experiences for undergraduates is part of Fredonia's mission. Increasing funding for faculty and student research is a basic element in the operations of the Grants Administration/Research Services Off ice. External funding not only makes possible support programs, such as the special fund in support of student presentations of scholarly papers at professional meetings, it provides funds which help to develop projects having the potential for future funding.

Summer Sessions at SUNY Fredonia

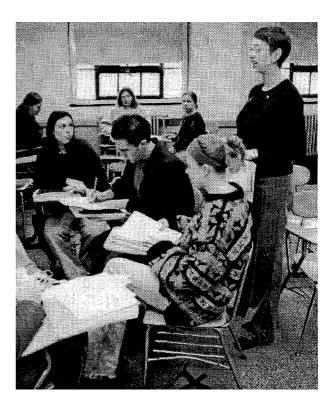
During the summer months, SUNY Fredonia offers a comprehensive program of undergraduate and graduate course work.

The availability of residence hall living and a wide range of recreational activities, along with a busy schedule of cultural events, enable the summer student to enjoy a full college life. The combination of intellectual stimulation in the classroom and a summer resort atmosphere on the campus can provide a very rewarding experience.

For additional information, students should contact the Summer Session Information Center at (716) 673-3177.

Winter Session at SUNY Fredonia

During the first two weeks in January, SUNY Fredonia offers a select group of undergraduate, graduate and professional development courses, as well as a specially designed set of intensive study abroad experiences. While some Winter Session course offerings are campus-based, others are made available over the World Wide Web or at such off-campus locations as Chautauqua Institution or the Roger Tory Peterson Institute. For additional information about Fredonia's Winter Session program, interested persons should contact the Office of Lifelong Learning at (716) 673-3177.



ACADEMIC AND STUDENT SUPPORT SERVICES

The college provides a variety of services and programs designed to support and enhance its educational programs and to assist students in solving problems that may interfere with their academic achievement. These services are directed and implemented by a trained professional staff.

Reed Library

Reed Library plays a key role in the teaching and learning process at Fredonia as students and faculty make heavy use of over one million research materials comprised of nearly 400,000 volumes, more than 11,000 journals, and collections of microforms and videotapes. The Music Library houses more than 15,000 sound recordings and over 30,000 musical scores and performance parts. New listening stations and a redesigned music lab are also housed on the Music Mezzanine. Special Collections include extensive materials related to local history, the college archives, the records of the Holland Land Company, and books and manuscripts of the noted Austrian author Stefan Zweig.

Librarians provide orientation classes, tours and instruction in the use of information sources to student groups and all academic disciplines. Reference librarians are available to answer specific questions and to advise students on research strategies. The Reed Library web pages contain extensive guides on the use of library resources.

Reed has a new online catalog, which allows students and faculty to search the library holdings and the holdings of other libraries as well. A wide variety of resources including encyclopedias, indexes, full text articles and online journals are available to the campus community 24 hours a day. Together with the online catalog our expanding selection of electronic information sources radically improve the way patrons of Reed Library gain access to information.

Reed Library is open at the following times during the academic year: Monday through Thursday, 8 a.m. to 11 pm.; Friday, 8 a.m. to 10 p.m.; Saturday, 10 a.m. to 10 p.m.; and Sunday, 1 to 11 p.m. Hours are extended during the exam period at the end of each semester, and are reduced during intersessions and summer school. For more information on Reed Library and its services, students should call (716) 673-3222 or visit the library home page at http://www.fredonia.edu/library/.

Information Technology Services

The college provides a wide range of information technology services for students, faculty, and staff. A Unix-based electronic mail system provides secure and reliable e-mail service. The campus network provides local area network and Internet access for approximately 2,400 academic/administrative connections for classrooms, offices, and teaching/student laboratories as well as approximately 2,200 ResNet (student residential network) connections.

Access to personal computers is now an essential part of any college education. The college encourages students to purchase their own PCs for use on campus: however, recognizing that many students are not in a position to do this, there are a significant number of computer laboratories on campus with Pentium-based and Macintosh computers available hardwired to the Internet. These computers run standard web browsers, the Microsoft Office Suite, as well as software for data-analysis, programming and other course-related software.

Additional computer labs on campus are designed to be teaching facilities, optimized for classroom instruction. The Department of Communication houses the Sheldon Multimedia Laboratory and state-of-the-art facility dedicated to digital video processing. The Visual Arts and New Media program also has a multi-media laboratory. Fourteen high-tech classrooms provide faculty access to multimedia technologies for instructional purposes.

Students are encouraged to utilize the Media Center, located in W203 Thompson Hall, which houses speech pathology and audiology materials, a student graphics lab, PC/Mac microcomputers and media equipment to support classroom projects.

Many academic departments provide student computer usage instruction. Instruction in computer science is provided by the Department of Mathematics and Computer Science, which also offers an undergraduate major and minor in Computer and Information Sciences. The department has operated a Computer Science Laboratory (CS Lab) in Fenton Hall since 1984. For more information on the hardware and software maintained by the department, refer to the Computer Science section on page 17.

The Office of Administrative Information Technology has converted the Student Information System to the Systems and Computer Technologies (SCT) Banner 2000 software running on a Compaq ES40. This integrated system maintains student records for Admissions, Advising, Alumni/Development, Faculty Advising, Financial Aid, General Ledger/Finance, Institutional Studies, Registration, Residence Life, and Student Accounts/Receivables. Banner Web implementation during 2000-2001 provided for web course registration and secured viewing by students of personal financial aid, billing, and course information.

Additional information about Information Technology Services is available at the department's website at http://www.fredonia.edu/its.

The Learning Center

The Learning Center provides tutoring in academic subjects to any member of the college population. The center's peer tutoring program is run on a drop-in basis, at no cost to the student. Subjects tutored include writing, math, computer science, business administration (including accounting), economics, statistics, biology, chemistry, physics, and foreign languages. Fredonia's Learning Center has been rated among the best in the SUNY system in recent Student Opinion Surveys administered by the American College Testing service.

Learning Center tutors are available to assist students with academic work using computer programs for calculus, business, computer science, and the natural and social sciences. Internet and electronic mail capabilities give students access to a world full of electronic research tools. The Learning Center encourages students to take full advantage of the computers whenever equipment is not required for tutoring or workshops. For more information, students should visit the Learning Center on the fourth floor of Reed Library or call (716) 673-3550.

Applications are accepted for tutoring positions in March. Final decisions are made by the end of April after a series of interviews. Tutors are then hired for both semesters of the following academic year.

The Learning Center provides language support services for English as a second language (ESL) students and is also the home of Disability Support Services for Students, the Full Opportunity Program, and the 3-1-3 Program.

Educational Development Program

The Educational Development Program (EDP), known statewide as the Educational Opportunity Program (EOP), is an academic and financial support services program administered by the State University of New York. It is designed to provide a college education for talented students who have not had an opportunity to realize their academic potential. EDP serves students from diverse backgrounds with priority for admission given to the "historically disadvantaged."

Additionally, program graduates can receive a waiver of tuition for full-time graduate study upon acceptance at any SUNY college or university.

The Educational Development Program is a comprehensive academically oriented program offering supportive services in three areas:

- 1. Academic Support
 - a. College level
 - b. Tutorial assistance
 - c. Supplemental instruction
- 2. Counseling Services
 - a. Academic advisement
 - b. Individual and group
 - c. Career
 - d. Freshmen seminar course
 - e. Personal and social
 - f. Peer advising
- 3. Financial Assistance
 - a. Financial aid for qualified students
 - b. Financial planning

Students should review the Educational Development Program eligibility and admissions criteria on page 203 of this catalog. Students interested in the program should look for the EDP homepage at http://www.fredonia.edu/edp.

Career Development Office

www.fredonia.edu/cdo

The Career Development Office provides a link between the campus and the world of work. The professional staff helps freshmen through alumni to:

- explore options and make career/major/job choices
- plan strategies to gain experience and identify skills to become competitive
- develop skills to implement a successful job search
- learn how to apply to graduate or professional school
- locate information and opportunities to make decisions or implement plans
- · get connected to employers and graduate schools

Outline of Services

Individual Counseling. Students are urged to make an appointment early in their college experience to examine the expectations they may have for a degree program, major, and possible occupations. Computer programs, paper and pencil inventories, career information, and information interviewing are used to supplement counseling appointments. A counseling appointment is also recommended to identify strategies and find information to implement a job search.

Drop-in Hours. A counselor is available without an appointment to help locate information, critique resumes and cover letters, and answer questions about internships, summer jobs, or applying to graduate or professional school. Drop-in Hours are held three or four days a week from 2 to 4:30 p.m. when classes are in session.

Workshops. The counselors make presentations to student clubs, classes and residence halls about career options, internships, summer jobs, resume writing, job searching, interviewing, and graduate or professional school application issues.

Career Resource Area. This library of almost 1,200 books, videotapes and brochures includes information about a variety of career fields; directories of potential employers, internships and graduate school programs; and how to write resumes, cover letters, find a job and interview successfully. A series of handouts on career choice, job search, resumes and cover letters is also available.

Quest. Each enrolled student has a personal account in this web-based system. It provides access to student employment, internship, summer and professional job listings; a resume database; information about the books and videos in the Career Resource Area; and a mentor database of Fredonia alumni.

Recruitment Events. Each year organizations visit the campus to interview students about to complete a degree program. In addition, students can participate in special annual programs such as Teacher Recruitment Days, Human Services Career Fair, Career Night with Fredonia Alumni, Business Career Fair, online virtual job fairs, and Graduate and Professional School Week.

Videotaped "Practice" Interviews. A counselor will conduct a brief interview. The interview will be videotaped, viewed and discussed, and suggestions for improvement offered.

Credentials File. Students about to complete a degree program are eligible to establish a file which includes a resume, course list, transcript, and letters of recommendation to be sent to prospective employers or graduate admissions personnel to support an application.

Follow-up Study on Graduates. Each year the office contacts the graduates of the college to determine their plans for the first year after graduation. Members of each class choose to accept diverse opportunities for further study and employment.

The information is collected in the fall, with an approximate response rate of 50 percent. Business and industrial organizations are the most frequent first-time employers of Fredonia graduates, followed by education; social service, non-profit and government; media or arts organizations and self-employment.

Graduates are pursuing advanced degrees in science, law, business, education, music, medicine, and a variety of other disciplines at graduate institutions across the country, many widely recognized for their excellence. Information about the first year plans of recent graduates is available on request from the Career Development Office.

Contact Information. The office is located on the second floor of Gregory Hall and can be reached by phone at (716) 673-3327, by fax at (716) 673-3593, or by e-mail at careers @fredonla.edu.

Counseling Center

Philosophy

The mission of SUNY Fredonia Counseling Center is to foster the development of personal strength and overall wellness that allows for academic success. The philosophy of the Counseling Center is based upon a wellness model that incorporates emotional, physical, social, occupational, spiritual, intellectual, cultural, and environmental aspects. The development of personal insight, interpersonal skills, and strength of character, expected of an educated person, are encouraged through counseling.

Services

Professional counselors, with a minimum of a master's degree, are available to assist students with typical life transitions as well as serious, complex life problems. Free, confidential mental health counseling services are available to all registered students. A variety of counseling services including individual and group psychotherapy, crisis intervention, mental health assessment, referral, and informational services are offered. Counseling services for individuals or groups typically address such issues as test anxiety and time management, substance use, eating disorders, sexual identity, social relationships, career decisions, sexual abuse, assertiveness training, communication skills training, and depression.

Consultation and Workshops

Professional counselors are also available for consultation, workshops, and in-services to students, faculty, and staff in the college community on topics such as group interaction, study skills, conflict resolution, residential living transitions, and sexual misconduct.

The Fredonia C.A.R.E.S. (Commitment to Alcohol Responsibility and Education for Students) Workshop is an interactive course facilitated by the Counseling Center. This workshop, which has experiential and psycho educational components, is designed to help students gain personal insight into their alcohol/other drug use.

Information

The Counseling Center is located in LoGrasso Hall. Appointments can be made in person at the reception desk or by telephone at (716) 673-3424. Information about services being offered by the Counseling Center for the current semester including groups, workshops, and wellness ideas and links can be assessed through our website at www.fredonia.edu/counseling/.

Center for Multicultural Affairs

www.fredonia.edu/department/Maffairs

The Center for Multicultural Affairs is dedicated to the premise that all cultural heritages and practices can be celebrated on the SUNY Fredonia campus. Combining talents and resources with the Black Student Union; Latinos Unidos; Women's Student Union; Gay, Lesbian, Bi-Sexual Student Union; Jewish Student Union; Gospel Choir; Native American Student Organization; Solutions; and the Brother to Brother/Sisters Supporting Sisters discussion groups, Multicultural Affairs staff members offer a comprehensive array of support programs that address the areas of cultural appreciation, gender equity, homophobia elimination, prejudice reduction, and multicultural harmony.

Additional services provided by the Center for Multicultural Affairs include academic, personal, group, and career assistance; student advocacy; leadership development; mentoring programs; and various other campus-wide diversity initiatives. For more information about the Center for Multicultural Affairs, students should call (71 6) 673-3398.

STUDENT LIFE ON CAMPUS

HousingIResidence Life

www.fredonia.edu/reslife/

On Campus. Because the college realizes that an important part of students' total educational development is the housing unit in which they live during their stay in Fredonia, the Office of Residence Life attempts to provide students with facilities conducive to adequate study. Through the learning experience of group living, resident students acquire a greater awareness and understanding of themselves and their ideas, and a greater concern for and consideration of the other members of the community.

Although on-campus housing is reserved for matriculated undergraduate students, the college will accommodate single graduate students if space is available. Freshmen and sophomores who do not live with parents or spouses are required, as a matter of policy, to live in college housing for the full academic year. Any exemption to this regulation such as permission to live with relatives other than parents must be granted, in writing, by the Director of Residence Life. The housing license agreement is for the entire academic year and cannot be canceled during this period as along as the student is registered. There is a \$200 fee for approved termination of the housing contract.

Assignment to a residence hall is first-come-first-served, based on the date of submission of a completed housing packet. The packet includes an application, a contract, and housing information.

There are 13 residence halls on the SUNY Fredonia campus, including corridor and suite-style, as well as apartments. Residence hall activities attempt to integrate resident living experiences with the total educational program of the college. The residence halls are modern, comfortable, and convenient and allow a student the opportunity to establish independence and experiment with a variety of activities and experiences. Through hall government, students have opportunities to participate with other students in programs of their own choosing, to work on projects of interest to themselves and of service to others, and to communicate students' needs and concerns to the college. Although much of the responsibility for governing the halls lies with the student, an experienced and professionally trained staff member is in charge of each residence hall. The residence director, whose major concern is student welfare, is assisted by several undergraduate students. They work with and advise students within the residence halls to develop broadly based educational and social programs that serve to offer opportunities for growth and involvement within the living situation.

The Office of Residence Life continually reviews the interests and objectives of students in an effort to provide facilities that will assist them in the educational process. Recent additions to the program include computer labs in Grissom, Kasling, Hemingway, Alumni and most other halls, as well as an Aerobics Center in Hemingway Hall and a Wellness Center in Schulz Hall.

Detailed information about college housing facilities for single students will be provided upon request by the Office of Residence Life, Gregory Hall, State University of New York at Fredonia, Fredonia, NY, 14063.

Regulations governing occupancy of residence hall rooms will be provided by the Office of Residence Life at the time the housing packet is forwarded to students. All occupants within the halls are expected to comply with the appropriate regulations.

For the cost of housing, see the section on Expenses (page 205).

Off Campus. Files of available off-campus housing are maintained in the Student Association Office located in the Williams Center.

Faculty Student Association

The Faculty Student Association (FSA) is a not-for-profit corporation governed by a board of directors composed of seven students, three college administrators, three faculty, one classified staff member, and one alumni member. It operates under a contract with SUNY Fredonia in conformance with guidelines established for all SUNY campuses. FSA receives no government subsidies, and is self supporting through revenues generated from its services. Any income after operating expenses is used to benefit the college by supporting campus programs. FSA administrative and food services offices are located in Gregory Hall. For general information, students should call (716) 673-3417 or view the FSA website at www.fredonia.edu/fsa.

Food Service Operations

The Marketplace at Erie and Cranston dining centers feature all you can eat self-service of a variety of traditional and specialty menu items.

In addition, the Connections *Food Court*, located on the lower level of the Williams Center, offers a variety of fast food selections.

For customer convenience, Signature *Cafe,* with several units located across campus, specializes in espresso based coffee and other upscale beverages, gourmet pastries and cakes, soup, salads, and sandwiches.

Cafe G, on the first floor of the Williams Center, is a weekday luncheon restaurant, and is also available for catering.

In addition, full catering services ranging from coffee breaks to banquets are available. Customers should contact the FSA office at 673-3417, ext. 227 for further information.

Other Services

ID Cards - A college ID card is required of all enrolled SUNY Fredonia students. These cards are issued at no charge to students by the FSA office. In addition to being a required form of identification on campus, they are also the official card used for all meal plans. A service charge is assessed for lost cards.

The **Connections Bookstore** provides new and used textbooks as well as a variety of reference and study aids. Located in the lower level of the Williams Center, the bookstore also offers school and art supplies, health and beauty aids, imprinted items, clothing, greeting cards and a unique array of gift items. The store's computer department features hardware, software and a wide range of peripherals. The bookstore also offers convenience store items.

The **Bookstore Campus Account** is a prepaid taxable debit account. This account offers the convenience of purchasing any bookstore item without carrying cash.

Opening the Bookstore Campus Account also entitles students to take advantage of the Textbook Pre-pack option. The bookstore will prepackage a student's textbooks and subtract the cost from the student's Bookstore Campus Account. When the student arrives on campus they simply go to the pre-pack area, show their SUNYCard and pick up their books. The FSA provides **check-cashing** services on campus. Students who possess a valid Fredonia college I.D. card may cash checks in the bookstore. Fees for check cashing may apply. In addition, electronic banking machines are available on campus.

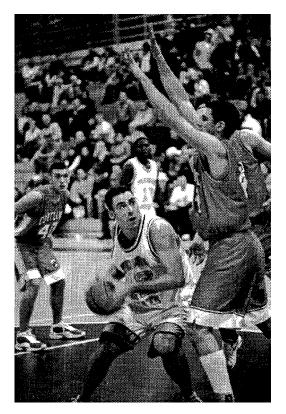
FSAs **vending program** on campus includes snacks and beverages. In addition, it also provides the vended washers and dryers in the residence halls.

The **Herbert C. Mackie Memorial Camp** (College Lodge) in Brocton, located 12 miles from the campus on Route 380, is a 193-acre refuge featuring a beautiful and rustic lodge and hiking trails. This facility is available by reservation for parties, cross-country ski outings, and other events. The camp also has a sleeping lodge that will accommodate up to 75 people.

Student Employment - FSA provides jobs ranging from 10 to 20 hours per week for approximately 300 students. A variety of student jobs are available, with the majority being in the food service areas. These jobs are not based on financial need.

Student Health Center

The Student Health Center is located in LoGrasso Hall. The health center is staffed by a board-certified physician, a nurse practitioner, registered nurses, a lab technologist and a secretary. The staff at LoGrasso Hall Health Center strive to provide quality health care for the student population in an outpatient clinic setting. The treatment of illnesses and injuries, as well as preventive health services and health education, are provided in a confidential, caring atmosphere. The health center has a lab and can perform some simple diagnostic tests on site.



Health services are funded by the mandatory health fee paid each semester. Most services at the health center and many medications are provided without any additional charge to the student. Allergy injections, vaccinations and PPD tests are provided but do require an additional nominal fee.

The health center is open from 8 a.m. to 5 p.m., Monday through Friday, and Saturday from 10 a.m. until 1 p.m. When necessary, referrals can be made to private physicians or specialists in the local area.

Emergency coverage is available at Brooks Memorial Hospital.

Birth Control Information Center - The Birth Control Information Center or "BCIC" is located in LoGrasso Hall and is staffed by trained student volunteers. All students, male or female, can use BCIC to learn more about contraceptives and other sexual health issues. Clinics are held twice a week in the evening where gynecological services and birth control are provided at minimal cost to the student. Clinic staff includes a gynecologist, nurse practitioner, physician assistants, registered nurses and a lab technician.

University Police Department

The University Police Department, located on the second floor of Gregory Hall, is responsible for all law enforcement related issues on campus.

Members of the department are trained in a community policing environment where students and the campus Community share in keeping the college a safe place to study and work. University Police Officers are responsible for the security of all buildings and the protection of students, employees, and visitors. Duties include community policing, parking enforcement and all investigations.

The chief is assisted by three lieutenants and 12 officers. The office maintains a close working relationship with the Fredonia Police Department and other law enforcement agencies in Chautauqua County.

Office of Veterans Affairs

Veterans and their dependents who receive educational benefits through the Veterans Administration are assisted by this office, located in Room 001 McGinnies Hall (716 673-3423). Applications are processed through this office and students experiencing problems with benefits can receive assistance or referrals (see also pages 216 and 217). This office also serves as the campus liaison with the V.A. Regional Office in Buffalo.

FREDONIA ORGANIZATIONS AND ACTIVITIES

Campus Life Office

www.fredonia.edu/campuslife

The Campus Life Office, located in the Williams Center, provides exciting and various activities for students to participate in to fill the hours when they are not in the classroom. The office is a place for students to schedule concerts, dances, movies, lectures, student organizations' meetings and a host of campus activities. Some of the services the office and staff provides are:

> Advisement to student organizations Providing a meeting place, by reservations, for groups and organizations Maintaining leadership development programs and workshops for students, organizations and advisors Facilitating advertisement for campus/organization events

In addition to the above services, the Campus Life Office plans Family Weekend, Summer Orientation, Winterfest, and works closely with Residence Life events, Homecoming, Commencement, Admissions Open Houses, Superdance, and the conference committee.

For students' leisure and recreation, Campus Life also offers The Spot. Featured in The Spot is the Campus Grind Cafe, which serves a variety of specialty coffees, granitas frozen drinks, pastries, and daily luncheon items. Adjacent to the Campus Grind is our nightclub, complete with staging for small concerts and the latest in sound equipment for dancing. Also located in The Spot is the Side Pocket game room, offering pool tables, foosball, bubble hockey and air hockey and the latest in video games.

The Williams Center lobby is open Monday through Thursday, 8 a.m. until midnight; Friday, 8 a.m. until midnight; Saturday, 11 a.m. until midnight; and Sunday, 11 a.m. until midnight, when classes are in session. Events that wish to extend beyond midnight are permitted with permission. For more information, students should contact the Campus Life Office at (71 6) 673-3143.

Central Box Office

The Central Box Office is a full-service outlet located on the main floor of the Williams Center. Its main function is in providing tickets for events on campus and the outlying communities. Tickets for theater, musical concerts, graduation, plus bus transportation to all areas of the United States are available to students. In addition, the Central Box Office offers students charter bus service during holidays, to the Southern Tier, New York City and Long Island. Greyhound, Empire Transit and Trailways charters, schedules and tickets are also available. Amtrak schedules and tickets are now available on 48 hours notice. Other services offered include Western Union incoming money transactions. The Central Box Office is open during the academic year from Monday through Friday from 9 a.m. until 5 p.m., and on Saturday from 1 until 5 p.m.

Student Association

All fee-paying students at SUNY Fredonia are members of the Student Association. The Representative Assembly, which is the governing body, is divided into the five classes (freshman through graduate) and has one elected representative for every 100 students in the class.

These representatives have a very important responsibility. Besides representing their constituents at the assembly meetings, they are individually appointed to faculty committees of their choice. Through these committees, students voice their opinions on such matters as academics, food services and student affairs. Student membership on these committees is not limited to assembly members, however, everyone is encouraged to participate.

The association also has committees and departments of its own which require student input. Legal Services, Off-Campus Housing, and Public Relations offer students a way to help each other and to get practical experience in fields in which they are interested.

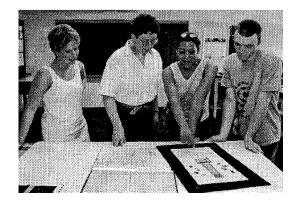
Elections for the office of president and vice president of the Student Association are held every November for a one-year term that runs from January to December. The Student Association President has the privilege of appointing a comptroller. The Speaker of the House is nominated and elected annually by Assembly.

Students are encouraged to become involved with the Student Association. The association determines how the resources (activity fee) of the students are allocated and released over the year and submit for approval by the College President an annual budget.

The Student Association Office is located on the main floor of the Williams Center. Students may stop in any time to join a committee, become a representative or just to ask questions. The office is open Monday through Friday from 9 a.m. until 5 p.m.

Art Forum

The Art Forum presents programs that broaden the awareness of the visual arts; gives interested students the opportunity through participation to develop student and community appreciation for the visual arts; and helps to develop an effective and informal network of professional assistance that is a resource to the profession and the public. The group participates in many activities ranging from exhibitions to weekend trips to New York City.



Black Student Union (BSU)

The Black Student Union, which has been in existence for over 25 years at Fredonia, is an organization that seeks to promote a feeling of unity and pride among students of African descent as well as provide a sense of cultural awareness throughout the campus community. The BSU contributes to the richness and diversity of student life by sponsoring lectures, artists, dancers, poets and musical productions throughout the year. Some of the organization's annual events include the People of Color Concerns Conference, the Black Achievement Awards Dinner, a fashion show, and Kwanzaa, an African-American celebration that is an affirmation of cultural self-determination. Such people as Dr. Na'im Akbar, Kwami Toure, Dr. Bruce Bridges, Dr. Ivan van Setima, Jill Nelson, Bill Bellamy and Dr. Ali Rashad Umrani, are just a few of the many who have joined the BSU family at Fredonia.

Ethos

The purpose of Ethos is to set and maintain a standard of excellence in music composition; to create an environment within which composition at Fredonia can flourish; to create a vehicle for the performance of student compositions; and to organize two music festivals a year including, as well as student compositions, works by other composers. Activities include attending theory and composition conferences.

Fredonia Jazz Workshop

The purpose of the Fredonia Jazz Workshop is to provide a source of education in jazz for the campus community, as well as educational and musical experiences in jazz to the local community through concerts and campus sponsored dances.

The Leader

The Leader is the student-run newspaper of SUNY Fredonia. It is published each Monday, except for exam periods or breaks, and is supported by advertisers and a portion of each student's mandatory Student Services and Program Charge. The Leader is run by a student editorial board. All editorial positions are open for election in December, and again in April, if there are any new vacancies. Besides the writing staff at The Leader, there are marketing and sales staffs, as well as photographers. Some of these are paid positions.

Positions are open to any qualified students. Students interested in journalism, English, business administration (sales, marketing, advertising), photography and graphic arts are strongly urged to join the staff and attend The Leader meetings.

Student Opera Theatre Association (SOTA)

The purpose of Opera Theatre is to provide a source of education in the production and performance aspects of opera. The opera is represented through live performances, guest speakers and artists, lectures, master classes and other forms of the opera. Membership is open to all fee-paying students, faculty and staff.

Orchesis

Orchesis is a club dedicated to the appreciation of dance as an art form. Classes are held daily in the late afternoon. Three concerts are presented annually; an informal fall and spring concert featuring choreographed work of participating students, and a formal concert in the spring semester presenting dances choreographed by faculty and students. In addition, the club sponsors various master classes and performances by guest artists throughout the year.

Performing Arts Company (PAC)

The Performing Arts Company is the student-run theatre group at SUNY Fredonia. PAC presents two productions a year, one per semester, and also funds student experimental theatre and sponsors workshops ranging from performances to technical theatre. It is a creative outlet for interested theatre students and is frequently the stepping-stone to Mainstage shows.

Spectrum Entertainment Board

Spectrum Entertainment Board is a student organization dedicated to enriching the college curriculum by presenting stimulating arts, entertainment, and cultural programs for the campus community. Members of Spectrum are educated on negotiating contracts, dealing with agents and artists, and coordinating large, campus-wide events. Programs include lectures, films, concerts, weekly music series, comedy, and special events such as Activities Night, Family Weekend entertainment, Hanging of the Greens, and Fredonia Fest. Past performers have included Jon Stewart, Davy Jones, Dr. Hunter "Patch" Adams, Less Than Jake, and the MTV Campus invasion Tour with Third Eye Blind and Eve 6, Henry Rollins and Blues Traveler.

Fredonia Radio Systems

Fredonia Radio Systems includes both WDVL-Cable and Internet 89.5 FM and WCVF 88.9 FM. These two stations provide SUNY Fredonia students and Northern Chautauqua County with radio programming designed to inform as well as entertain. They also provide valuable training for those interested in any aspect of broadcast communication.

WDVL, "The Inferno," began operations as WCVF-AM in the early 1940s and is the oldest radio station in the SUNY system. This commercial station programs contemporary rock as well as campus news and sports to its on-campus audience of students. WCVF, "The Voice," went on the air in 1978, broadcasting to Fredonia and surrounding communities. It is a non-commercial station licensed by the FCC to the SUNY Board of Trustees, and features a variety of public affairs, news (both local and National Public Radio), sports, and a progressive blend of alternative music styles from jazz, folk and blues, to reggae, techno, world beat and rock, with an emphasis on new music.

Fredonia Radio Systems offers all students, regardless of major, the opportunity to work in the following departments: management, business, promotion, sales, traffic, music, production, news, sports, community service, and engineering. The station is managed and staffed by volunteers. Its offices and studios are located in McEwen Hall.

WNYF-TV

WNYF-TV is a completely student-operated cable television station located in the lower level of Hendrix Hall, equipped for studio and field production and editing, with some of the latest digital technology. WNYF gives its student members an intense professional experience in television production, and fosters a real esprit de corps as a fun, hard-working campus group. The station cablecasts a variety of award winning programming to the village of Fredonia, the city of Dunkirk, and the college campus.

Absolutely no experience is required to join the staff of WNYF, and all majors are welcome. Students can gain experience in all production areas by producing, writing, directing, and editing, or taking on-air roles from news and sports to drama. Members have the opportunity to create, develop, and produce their own programs, as well as join the decision making board. An Oscars-style awards ceremony (The Freddy's) is held each year to honor the best of station production.

Interested students should look for the first general meeting announcement at the beginning of each semester, or call 673-3571, or stop by the station.

Writer's Guild/ Promethean Society

The Writer's Guild/Promethean Society is a student group organized to enhance student writing. It publishes the only literary magazine at SUNY Fredonia, including student poetry, fiction and photography. The guild sponsors poetry readings and workshops. In 1992, the guild brought Gwendolyn Brooks, a major American poet, to campus for a workshop and poetry reading and in 1993 "Black Mountain" poet Robert Creeley. The guild meets twice a month to discuss writing and general business and is open to any student who has an interest in writing or poetry.

Other Student Clubs and Interest Groups

Student life is enriched by the availability of a wide variety of formal and informal group activities, some of long standing, some only newly established. In addition to honor societies, there are service groups, clubs relating to specific majors and career fields, a growing social fraternity and sorority system, and interest groups involved with sports, hobbies, areas of social concern, etc. It is not possible to give more than a sampling here; students who have a specific interest or just want to find out the full range of possibilities may write to the Office of Campus Life (Williams Center, SUNY Fredonia, Fredonia, NY 14063) or stop by the office when on campus for the latest guide to Student Organizations. The following list should suggest the range of additional activities available. All department clubs, independent organizations, associations and societies must be recognized by the Student Association in order to have access to campus facilities and association funds.

Accounting Society *Alpha Phi Omega* American Choral Directors American Marketing Association Amnesty International Applied Communication Association Audio Engineering Society BACC H US Beta Beta Beta Birth Control Information Center Blackhorse Rugby Business Club Chemistry Club Coed Volleyball Club Computer Science Club Dance Team Delta Chi Fraternity Delta Kappa Omicron Fraternity Delta Phi Epsilon Sorority Economics Club Field Hockey Club French Club Gay Lesbian Bisexual Student Union Geology Club Geophysics Society Guitar Society Habitat for Humanity History Club Information Tech Support Interfraternity Council Inter-Varsity Christian Fellowship Jewish Student Union Lacrosse Club Latinos Unidos Leadership Corps Martial Arts Club Media Arts Club Medieval Re-enactment club Men's Volleyball Music Educators National Conference (MENC) Music Therapy Club Native American Student Association Panhellenic Council Phi Kappa Sigma Fraternity Philosophical Society Political Science Association Project Environment Psychology Club Resident Assistant Advisory Board Rock Stars Anonymous Siama Alpha lota Sigma Gamma Phi Sorority Sigma Kappa Sorority Sigma Phi Epsilon Fraternity Ski Club Social Work Club Sociology Club Solutions Sound Services Student Teaching Equals Positive Sexuality (STEPS) Speech Pathology and Audiology Society Teacher Education Club Tonemeisters Unitarian Universalist Campus Ministry War Garners Club Wilderness Club Women's Student Union

The formal and informal activities mentioned above are further supplemented by some traditional events in student campus life that normally involve large groups of students. They include the following: Activities Night, Culture Night, Superdance, and Homecoming.

Other Campus Activities

The groups and activities previously mentioned are joined by some other non-classroom events and activities in student campus life. This section lists a sampling of these other activities.

Alumni Association

Membership in the Alumni Association of the State University of New York College at Fredonia is open to enrolled students, graduates of the college, and present and retired faculty members.

Supported by alumni gifts and student dues, the association provides all its constituents and parents with its quarterly publication, the Fredonia Statement.

Contributions are primarily used to support scholarships and grants for deserving students, student recruitment, career counseling, Homecoming Weekend, and various programs for which funds are unavailable through normal state sources.

Students are encouraged to participate in the Undergraduate Alumni Council (UAC), which assists in the coordination of alumni/student activities. Actively involved students are considered for Undergraduate Alumni Awards. The \$500 awards are annually given to those UAC members who are in good academic standing and have shown an interest in improving the quality of campus life by their extra-curricular involvement.

Art Exhibitions

Each season, many art exhibits are presented on campus. The 2,000 square-foot Michael C. Rockefeller Arts Center Gallery hosts several traveling contemporary art exhibits sponsored by Art Forum, a student organization. The emphasis of these shows is on contemporary work in painting, printmaking, photography, sculpture and graphic design. The gallery also hosts exhibits by the visual arts department faculty and students. All exhibits feature a public reception open to students, faculty, and community residents.

The Emmitt Christian Gallery on the second floor of the arts center is used to exhibit class projects, solo student shows, visiting artist work, and other small exhibits throughout the year.

Department of Athletics

Fredonia has a long and storied history of successful competition on athletic fields, courts and rinks across the state. A highly respected coaching staff has produced over 100 collegiate All-Americans and a plethora of team championships at the division, conference and regional level. Fredonia's coaches also serve on advisory committees throughout the east and have held top positions in a number of statewide, regional and national organizations.

Offering a wide range of programs for students wishing to participate at a competitive level, SUNY Fredonia sponsors athletic teams for men in the following sports: baseball, basketball, cross country, hockey, soccer, swimming, tennis, and track and field. Offerings on the women's side include: basketball, cross country, lacrosse, soccer, softball, swimming, tennis, track and volleyball. A co-educational cheerleading team competes successfully as a varsity sport while a junior varsity team is available for men in basketball.

All full-time undergraduate students are eligible to try out for Fredonia's athletic teams. Athletic eligibility is determined through the office of the Director of Athletics. Varsity athletes must comply with all appropriate rules and regulations of SUNY Fredonia, as well as those of all playing conferences with which Fredonia is affiliated. In addition to being certified eligible to participate through the Athletic Director's Office, each prospective student-athlete must receive clearance from the Student Health Center prior to participating in team activities including practice, staff-supervised pre-season conditioning, and contests. All student-athletes are encouraged to enroll in the college's insurance program or provide the Director of Athletics with evidence of personal health and accident insurance coverage.

The athletic policies of SUNY Fredonia are developed by the Director of Athletics in conjunction with the Intercollegiate Athletic Board, an advisory board to the College President composed of faculty, students and administrators. Athletic affiliations are maintained with the NCAA, ECAC, NYSWCAA and SUNYAC. While programs range in strength from national level competition to competitive conference play, the college encourages students try out for teams if their ability warrants.

Intramural and Recreational Activities

The Intramural and Recreational Activities Program is conducted under the direction of the Department of Health, Wellness, and Recreation, and is funded by the State of New York and Student Association fees.

An extensive intramural and recreational activities program is conducted in men's, women's, and co-ed sports. Activities include basketball, broomball, softball, soccer, racquetball, touch football, wallyball, beach volleyball, tennis, and volleyball.

Facilities include Dods Hall, with classrooms, gymnasia, the Blue Devils Fitness Center, dance studio, and racquetball courts, and Steele Hall, which contains an indoor ice skating rink, track-basketball arena, and natatorium. There are also outdoor tennis courts and outdoor track and playing fields.

Music Faculty Performances

Throughout each academic year, members of the artist faculty of the School of Music present public recitals. Most often the performances feature an individual faculty member; on occasion, however, several faculty members join together to present a program. Performances are also presented each year by the Fredonia Woodwind Quintet and the Concord Brass Quintet.

The Western New York Chamber Orchestra, an independent, regional chamber orchestra, is an ensemble-in-residence at the Fredonia School of Music. The chamber orchestra presents a series of concerts on campus and is also active in presenting concerts and educational events throughout the area. The orchestra is comprised of faculty, other area professional musicians, and outstanding School of Music students, with repertoire spanning all stylistic periods.

Michael C. Rockefeller Arts Center and Visiting Artists, Ensembles and Speakers

The Michael C. Rockefeller Arts Center, a magnificent performing and visual arts facility, includes the 1,200-seat King Concert Hall, the 400-seat Marvel Theatre, the Bartlett Theatre, and two art galleries.

Over 220 public events are presented each season for the benefit of campus and community audiences.

SUNY Fredonia has a rich cultural life, not only because of the many artistic events produced on campus, but also because of a full schedule of visiting artists and speakers, many brought to campus by the arts center or the Spectrum Entertainment Board.

Each season, the center presents the *Someplace Special Pops Series,* three evenings of musical relaxation and enjoyment. Guest ensembles on the series have included the Glenn Miller Orchestra, Keith Brion and the New Sousa Band, and the Epic Brass. Also appearing on this series has been the Western New York Chamber Orchestra with programs spotlighting students and faculty from the School of Music and musical theatre program.

Student Music Activities

The following music activities provide opportunities for development of proficiency in performance and for personal enjoyment for the performer, the college, and the community. Activities which music majors may elect for the music ensemble participation requirement are indicated by an asterisk (*).

The Choral Union is a large choir comprised of members from the other select choirs on campus. This group performs masterpieces of choral literature, usually with the Western New York Chamber Orchestra.

- * The College Symphony Orchestra is open to all students by audition and offers complete instrumentation and a repertoire of major works of classical, romantic, and modern orchestral and operatic literature. Maintaining high standards of performance, it performs several times each year.
- * The College Chamber Orchestra is a more select ensemble comprised of principal players from the College Symphony Orchestra. Recent performances have been of Mozart's Symphony No. 25, Bach's Orchestral Suite No. 3, and Milhaud's La Creation du Monde, among other important works.
- * The Fredonia Wind Ensemble is the premier wind/percussion ensemble in the School of Music. This highly select ensemble consists of 45 of the most outstanding wind and percussion players at the college. It performs a wide variety of repertoire consisting of contemporary, historical, and standard wind works that range from chamber music to literature that utilizes the full ensemble. The size and instrumentation of the Wind Ensemble is dictated by the demands of the music being performed. The Wind Ensemble concertizes extensively both on and off campus and is open to all students by audition, regardless of major.

- * The Fredonia Wind Symphony is a select ensemble that utilizes the full resources of the large wind/percussion ensemble to perform outstanding wind ensemble and concert band works from a wide variety of styles and music periods. The Wind Symphony is open to all students by audition, regardless of major.
- * The Fredonia Concert Band performs the finest in traditional and contemporary literature composed for the wind ensemble and concert band. The repertoire is drawn from a variety of genres and stylistic periods, with an emphasis on the standard band repertoire. The Concert Band is open to all students by audition, regardless of major.
- * The Fredonia All-College Band is a unique mixture of music majors, students from all academic disciplines, and community members. This combination creates a dynamic environment that provides an opportunity for the entire Fredonia community to perform music at a high level, without the pressure of an auditioned ensemble. The All-College Band performs music from the traditional band and wind ensemble repertoire. The All-College Band is open to all students, regardless of major and no audition is required for participation.
- * The Fredonia Chamber Singers, a group of 24 mixed voices selected by individual auditions for musical ability, flexibility, quality, and rhythmic sense, performs frequently both on and off campus. The chamber singers is a touring ensemble.

The College Choir, with approximately 60 selected mixed voices, studies and performs major choral works in addition to standard sacred and secular music. It has appeared with the Buffalo Philharmonic Orchestra and has performed at Philharmonic Hall, Lincoln Center in New York City, and with the Utica and Syracuse Symphony and Rochester Philharmonic orchestras. The College Choir is a touring ensemble.

- The Womens Chorale studies and performs sacred and secular literature from all style periods. An audition is required.
- *The University Chorus* is the largest choral ensemble on campus, ranging in size from 150 to over 200 singers in any given semester. Its membership comprises college faculty members and people from the community-at-large, as well as music majors (vocal and instrumental) and students from other academic disciplines. The University Chorus rehearses and performs a wide variety of music each semester, recent performances including large choral ensembles, French chansons, American folk songs and spirituals, music for double chorus, and folk songs from other world cultures. No audition is required for membership.
- * Ensembles. The School of Music offers several ensembles for interested students:

Flute Ensemble - performs music composed or arranged for 12 flutes.

Guitar Ensemble and Guitar Quartet - ensemble of 12 guitar majors and quartet, both touring groups, perform transcriptions and original music. The quartet is a select ensemble.

Percussion Ensemble - performs mainly contemporary works.

Piano Ensemble - systematic study in piano sight reading and accompanying.

Saxophone Ensemble - performs original and transcribed works.

Small Ensembles - perform basically chamber ensemble literature and include woodwind, string and brass trios, quartets and quintets, and clarinet and trombone choirs.

Membership and guidance are determined by the School of Music faculty.

* The Opera Theatre Workshop provides a workshop situation for students to deal with repertoire that has limited production requirements. The wide range of possible experiences provided includes performing, conducting, directing, design and management.

The Student Opera Theatre Association and Hillman Opera provide experiences with a variety of types of full-scale musical theatre works presented in cooperation with the Department of Theatre and Dance. Recent musical productions include The Merry Widow, The Marriage of Figaro, The Gondoliers, and Albert Herring.

The Jazz Ensemble is structured to foster wider understanding of and the ability to perform different styles of jazz. The jazz ensemble, the major performance group in the workshop, has produced several records and won many national and international awards at festivals. Other ensembles in the Jazz Ensemble program serve as training groups to familiarize musicians with jazz rhythms, improvisation, arranging, and other basics of jazz.

Student Recitals are presented throughout the academic year on weekday evenings and Saturday and Sunday afternoons and evenings. These recitals are a curricular requirement for many music majors.

The Music Educators National Conference, Student Chapter 151 at the SUNY Fredonia, is affiliated with the New York State School Music Association. The activities of the chapter encourage professional interests and ideals.

Ethos was founded to promote the performance of twentieth century music on the campus and sponsors a minimum of two concerts per semester featuring the works of student, faculty, and other twentieth century composers. It also sponsors field trips to concerts in adjoining major metropolitan centers and the scheduling of guest composers' visits to the campus. Involvement in the activities of Ethos is open to all students enrolled in the college.

The Music Therapy Club is affiliated with the Mid-Atlantic Region and National chapters of the National Association for Music Therapy. Activities of the club encourage the professional interests and growth of the students entering the field of music therapy.

The Audio Engineering Society student chapter at SUNY Fredonia was organized to promote the professional growth of students. The chapter arranges for guest speakers, field trips and other activities addressing the audio industry.

Student Theatre Activities

Walter Gloor Mainstage Productions. Five major theatrical productions are presented each year. These efforts of the Department of Theatre and Dance have become known for their excellence in all aspects of production, from outstanding acting, singing and dancing to magnificent scenery, lighting and costumes. Auditions and production work are open to all students.

HONORS

Maytum Lecture

The Maytum Lecture each year presents a major scholar of national reputation to the campus community. Students, faculty, staff, and community guests gather in King Concert Hall for an address on a major subject by a prominent figure such as anthropologist Richard Leakey, author Maya Angelou, musician Sarah Caldwell, biologists James Watson and Ruth Hubbard, philosopher Robert Nozick and historian Christopher Lasch. A panel discussion on a related topic follows in the afternoon.

Honors Program

Within the framework of the general education program, SUNY Fredonia has a freshman/sophomore Honors Program open to well-prepared students who enjoy intellectual challenges and are excited by ideas. The program consists of a series of four seminars on topics that change from semester to semester. Seminar topics have included "Politics and the Novel," 'The Dilemmas of Institutionalized Evil," and "Yuck.. Chemicals!" Students take one seminar each semester, and the four seminars replace four general education courses. Questions pertaining to the Honors Program may be directed to Theodore Steinberg, director, at 275 Fenton Hall, or at (716) 673-3529.

In addition to participating in the seminars and working closely with faculty members distinguished both for scholarship and teaching ability, honors students plan a number of extra-curricular activities and meet regularly to discuss the program in relation to their own developing perceptions of themselves, their values, and their future lives.

Opportunities in Honors are also available for students at the junior and senior levels in the form of departmental honors in a number of programs and the Honors Thesis.

Students who complete the program graduate with Honors in Liberal Education.

Application to the Honors Program is separate from application to the college. While most Honors Program applicants are high school seniors, qualified juniors who are considering early entry to college are encouraged to inquire about the Honors Program.

Graduation With Honors

Students whose cumulative quality point average indicates high scholastic attainment will be awarded their degree as follows:

1. Summa Cum Laude - Quality Point Average 3.7 or higher.

2. Magna *Cum* Laude - Quality Point Average between 3.50 and 3.69.

3. Cum Laude - Quality Point Average between 3.30 and 3.49.

Students may graduate with honors only when they have completed at least 45 hours of graded work at SUNY Fredonia. Graded work includes all courses that carry quality points and excludes courses that are graded "satisfactory-unsatisfactory" or "pass-fail." Only those credits earned at SUNY Fredonia will be computed in the final average.

Dean's List

About one month after the end of each semester, the college announces the names of students who are recorded on the Dean's List. The list includes all students who have earned a quality point average of 3.30 or higher for that semester with a course load of at least 12 credit hours. Courses with P or S grades are not included in the 12 hours.

Lanford Prize

The Lanford Presidential Prize is presented at Commencement to a member of the graduating class who has demonstrated balanced achievement. The recipient is selected by nomination from among those students whose accomplishments exemplify the college's ideals. Criteria for selection include a high degree of personal honesty and integrity, substantial intellectual growth and achievement during college years, a minimum grade point average of 3.0, and exemplary service to SUNY Fredonia, including active participation in more than one area of college life. The award is named for President Emeritus Oscar Lanford.

Other Academic Honors

SUNY Fredonia has many honor societies, some for students majoring in particular fields, and some for students at large (see below for a current list). In addition, students in the School of Music may qualify for a large number of awards and may be chosen to offer honors recitals. Students in chemistry may choose to conduct honors research projects. Students in art may qualify to present honors exhibitions of their work. Prizes and honors for outstanding work are also offered to students in English, history, psychology, and the natural sciences. In addition, a good number of scholarships and partial scholarships are available to high-achieving students. (See list on page 208.)

Societies

Alma Mater Society. An honorary organization of students selected annually by the student body at Fredonia. The society was established in 1966 by the Student Association for the purpose of recognizing those students, faculty and staff who have exhibited outstanding qualities of character

and leadership in support of the student body and the college community as a whole during their college years.

Alpha Epsilon Rho (AERho). The National Broadcasting Society. An honors organization comprised of student and professional broadcasters whose primary goal is to bridge the gap between the academic and professional worlds of broadcasting in order to better prepare students to enter the broadcasting industry. Student national members must have a GPA of 3.0 in communication courses. Local membership requires a 2.5 GPA in communication courses.

Alpha Kappa Delta. Sociology majors and minors who maintain a minimum 3.0 grade point average in their major or minor and overall are eligible for induction into Alpha Kappa Delta, the International Sociology Honorary Society.

Alpha Psi Omega. A national dramatic society for students in theatre arts at the junior or senior level who have attained an overall grade point average of 3.25 in their major and who contribute significantly to the theatre program.

Beta Beta Beta. A national honor society recognizing superior scholarship and research in the biological sciences. The *Upsilon Chi* chapter of *Beta Beta Beta* was installed at Fredonia in 1966.

Delta Mu Delta. A national honor society in business administration and accounting.

Kappa Delta Pi. A national educational honorary society. The local chapter is Zeta Upsilon. Membership is by invitation.

Omicron Delta Epsilon. A national academic honor society granting recognition in the field of economics. *Tau* chapter was installed at Fredonia in 1971.

Phi Alpha Theta. An international honor society in history whose membership is composed of students and professors and whose purpose is to recognize, through its membership, excellence in the study of history. Membership is open to any student who has completed 12 or more hours of history and who has achieved prescribed standards of academic proficiency.

Phi Beta Kappa Club of Fredonia. Composed of faculty and community members of *Phi Beta Kappa*, the club makes annual awards to a few outstanding graduating seniors with a QPA of 3.50 or more who have earned at least three-fourths of their college credits in a broad range of the liberal arts and sciences.

Phi Eta Sigma. A national honor society recognizing superior academic achievement in either the first semester or first year of college. Open to any student who achieves a quality point average of 3.5 or better in his/her first semester or first year. The chapter was installed at Fredonia in 1974.

Phi Mu Alpha Sinfonia. Rho Chi chapter of *Phi Mu Alpha Sinfonia* Fraternity of America was installed at Fredonia in May 1966. As a national professional music fraternity for men, *Sinfonia* endeavors to advance the cause of music in America and to foster the mutual welfare and brotherhood of students of music.

Pi Delta Phi. A national French honor society whose local chapter, *Epsilon Rho*, was installed in May 1968. The society recognizes outstanding scholarship in French and

strives to stimulate cultural activities that will lead to deeper appreciation of France and its people. Members are nominated in recognition of academic achievement.

Pi Kappa Lambda. A national music honor society, first organized in 1918. The society's primary objective is "the recognition and encouragement of the highest level of musical achievement and academic scholarship." Initiates are elected by the society's membership on the basis of this objective. Fredonia's chapter of *Pi Kappa Lambda* is *Delta Omega*.

Pi Mu Epsilon. A national honorary society for the promotion of scholarly activity in mathematics among students in academic institutions. Members are elected on an honorary basis according to their proficiency in mathematics.

Pi Sigma Alpha. The political science department is a member of *Pi Sigma Alpha*, the national political honor society. Outstanding undergraduates majoring in political science are admitted to membership.

Psi Chi. A national honor society recognizing academic achievement of students with majors or minors in psychology. The purpose is to advance the science of psychology and to encourage scholarship among members.

Sigma Alpha lota. Incorporated as a woman's international music fraternity whose purposes are to foster interest in music and to promote social contact among persons sharing a general interest in that art form. *Delta Lambda* chapter was installed at Fredonia in 1964.

Sigma Delta Pi. National Spanish honor society whose local chapter, *Eta Alpha*, was installed in May 1968. The society promotes the understanding and appreciation of Hispanic culture. Members are selected from advanced students who exhibit outstanding ability and interest in Spanish studies.

Sigma Pi Sigma. A national honor society, the sole purpose of which is to recognize excellence in the study of physics coupled with high overall academic scholarship. Membership is open to qualified first-semester juniors, seniors, graduate students, and faculty. The Fredonia chapter was installed in May 1970 as a subdivision of the existing chapter of the Society of Physics Students, a national organization open to all persons with active interest in physics.

Sigma Xi. National organization for the promotion of scientific research. It has an active club at Fredonia with membership open to both faculty and students who have done publishable work.

UNDERGRADUATE ADMISSIONS

www.fredonia.edu/fredweb/admission.asp

Submitting the Application

The State University of New York at Fredonia participates in the common SUNY application procedure. If you are a resident of New York State you may obtain a copy of the common application form from any high school guidance office or SUNY campus. As a transfer student or out of state resident, please contact the Office of Admissions, Fenner House, State University of New York College at Fredonia, Fredonia, NY, 14063 to make your request for an application. You may apply on-line at www.fredonia.edu/admissions/applying.html

Mail your completed application to the Application Processing Center in Albany in the envelope included with the application packet. (Freshman applicants turn applications in at the guidance office.) APC processes your application and forwards it to Fredonia for review. Processing time in Albany is no more than 48 hours from the date received. Upon arrival at Fredonia we acknowledge your application and send you Part II. Return this information to us as quickly as possible as this part of the application provides more individualized information about you. Your request for admission will be reviewed individually by our Admissions Committee. While there is no stated application deadline, we recommend that you submit your request for admission as soon as possible, as there are a limited number of openings in some academic programs. Consider November 1 for the spring semester and March 1 for the fall semester as recommended deadlines.

The Campus Visit

A campus visit is extremely important. It is your opportunity to learn more about the college from those directly involved in the educational process at Fredonia.

You are invited to visit the campus to discuss your application with an admissions counselor, meet with a faculty member in your chosen field of study, and tour the facilities. We offer small group information sessions and campus tours weekdays while classes are in session. There are a number of special visitation programs throughout the academic year, including holiday open house programs on Columbus Day, Veterans Day and Presidents Day. You may visit during the summer as well. Request information about specific dates and times for arranging an appointment by writing the Office of Admissions, calling (716) 673-3251, dialing toll-free at (800) 252-1212, accessing our web site at www.fredonia.edu/admissions/ visiting.html, or e-mail admissions.off ice@fredonia.edu.

We schedule an open house for accepted students during the spring semester. At this program, members of the college faculty, administration, and student body discuss our curricular options, financial aid, social and cultural activities, the residence halls, and student support services.

The campus is situated in the village of Fredonia at Exit 59 of the New York State Thruway (Interstate 90), 40 miles from Buffalo, N.Y. The Southern Tier Expressway (Rt. 17/86) provides an alternate route to the campus. Use the Greater Buffalo International Airport if you are traveling by

air. Several buses operate daily between Buffalo and Fredonia. Amtrak provides rail service to the area. Check with your local travel agent to determine the best connections for you.

The Decision Process

We offer you the opportunity to declare your major program of study when you enroll at Fredonia. Approximately three-quarters of all new freshmen select a specific academic major, although the decision to choose your program of study is optional. You must select a major by the end of your sophomore year. Since some programs are highly specialized and require careful academic planning, you may wish to discuss declaring your major with an admissions counselor. Transfer students who have earned more than 45 credit hours must make application to a specific academic program. You will be notified by mail of an official decision after the Office of Admissions receives all required credentials. All acceptances are conditional upon receipt of a high school or college transcript indicating successful completion of courses in progress, submission of vour medical history, and evidence of appropriate immunization. You must submit an advance deposit to reserve your place in the entering class.

Advance deposits secure a place in the class and room in a residence hall for a specific semester and are not transferable to another semester. Requests for refunds must be made in writing to the Director of Admissions prior to May 1 (for fall enrollment) and November 1 (for spring enrollment), or 30 days after acceptance, whichever is later.

Early Decision: The Early Decision option provides you with an opportunity to identify Fredonia as your college of choice. This admissions program permits you to tell us of your interest in pursuing your studies here. Colleges participating in an early decision program anticipate that those candidates who are accepted through Early Decision will submit an admission deposit and withdraw all other college applications. Early Decision allows you to finalize your college plans early in your senior year of high school. To be eligible APC must receive your application and all supporting credentials by November 1. By December 15 we notify all early decision applicants and begin to review all other requests for admission.

Freshman Admission: The Admissions Committee considers a variety of criteria when reviewing applications, evaluating quality of academic preparation including depth and breadth of course work, academic achievement, and the results of your SAT or ACT. Our college is committed to a liberal education for all undergraduates, and preference is given to those applicants who present strong academic programs in English, social studies, mathematics, science and foreign languages. We ask that you send us the results of your SAT or ACT for review. Admission to college is a matter of meeting the competition among applicants, and a comprehensive, challenging college preparatory program combined with good achievement will help ensure that your application is competitive. The Admissions Committee also reviews supporting credentials including special talents, activities, individual accomplishments, and recommendations, which you may choose to submit. Appropriate faculty evaluate the results of a required audition if you seek admission into our music or B.F.A.

theatre programs. As an Art or Media Arts applicant you must present a portfolio (or slides) for review.

Fredonia in 4

Graduation rates of our entering freshmen are among the highest in the nation. To ensure that our success continues, we have implemented *Fredonia in 4*, a program for first time freshmen which stipulates that the college pledges to adhere to a commonly understood agreement to provide the necessary courses and academic advising which will guarantee that you finish your degree program in four years.

Transfer Admission: SUNY Fredonia considers all requests for admission from transfer students in good standing at both two-and four-year colleges and universities, including SUNY and non-SUNY institutions. The admission review process focuses upon an evaluation of academic achievement, program of study, and the major program of study that you request. There are special audition requirements for music and B.F.A. theatre programs, as well as portfolio requirements for Art and certain Media Arts specializations. Admission to our certification programs in teacher education requires at least a 2.75 grade point average to be eligible for consideration.

We require an official transcript from each college you previously attended, and a high school transcript and SAT or ACT results if you have completed less than 30 credit hours when you apply.

We include an estimate of transfer credit hours with your acceptance letter. You may transfer up to 75 hours of college credit from your previous college(s). Your academic department chairperson or designee determines the distribution of specific courses in fulfillment of departmental requirements in your chosen field of study and provides information about which courses you will need to complete degree requirements in a timely manner. Our college consistently attains one of the highest graduation rates of transfer students in the SUNY system. An official review of transfer credit occurs when we receive your final transcript showing all course work completed. It is most helpful if this information arrives prior to our summer orientation and advising program for transfer students in June.

Fredonia awards transfer credit for academic courses successfully completed at a fully accredited college or university, reserving the right to determine what constitutes academic credit. Your grade point average does not transfer; only credit hours are awarded. You must fulfill all college and departmental requirements for the baccalaureate degree, including a residency requirement of 45 semester hours of credit at Fredonia. Visit our course equivalencies website at http://banweb1.banner.fredonia. edu/student/transart.asp for detailed information on the transferability of specific classes. As a prospective transfer student we encourage you to visit the college to discuss transfer credit and graduation requirements with a departmental academic advisor or our admissions transfer counselor.

SUNY Two-Year Transfer Applicants

SUNY Fredonia is committed to providing an opportunity for further study to SUNY two-year college graduates. We have established articulation agreements and joint admissions programs with many two-year schools. For further information, contact our Office of Admissions.

If you are admitted to Fredonia and complete an Associate in Arts and Associate in Science degree prior to transfer you will enter Fredonia with a minimum of 60 semester hours of transfer credit and junior standing.

Special Admissions Programs

Full Opportunity Program: Through the Full Opportunity Program an effort is made to identify and recruit students from underrepresented groups, students with special talents in the fine and performing arts and athletics, those who have participated extensively in school and community affairs, or have strong personal recommendations. The Full Opportunity Program provides you with a chance to enhance your academic credentials with a description of your individual talents and accomplishments.

Acceptance into the program provides you with access to support services designed to help you make a successful transition from high school to college, and to help guide you toward successful completion of your academic and career goals.

If you wish to identify yourself as a special talent applicant you should include a personal statement and resume as well as three letters of recommendation to supplement Part II of our application.

Students accepted through the Full Opportunity Program are guided through their first year at Fredonia, beginning with academic advising that takes place during Summer Orientation. In cooperation with the student's academic advisor, an advisor in our Learning Center has the responsibility for designing programming to meet the academic needs of the students in the program. Some of the services offered include: mentoring programs, free assigned tutoring, workshops by faculty members, electronic newsletters, and assistance with course selection.

Educational Development Program: Applicants who demonstrate potential for completing a degree program, meet financial and academic guidelines and have historically experienced educational and economic disadvantages may seek admission through the Educational Opportunity Program (called the Educational Development Program at Fredonia). To be eligible for consideration you must be a New York State resident and have earned a high school diploma or its equivalent.

To be considered "financially eligible," you must meet the economic criteria established by the New York State Education Department. Check the current *SUNY Application Guidebook* for the updated economic criteria listed under Educational Opportunity Programs in the booklet.

You are required to submit appropriate financial aid applications and verification of family income to supplement your request for admission as an EDP student. We may request additional information from you, as needed. A SUNY EOP Information form mailed to you from APC must be filed as part of the application process.

You do not need to prove that you meet the economic guidelines if you can show that:

- a. Your family receives payment through the New York State County Department of Social Services;
- You live with foster parents who do not provide support for college, and your natural parents provide no financial support to you, or;
- c. You are a ward of the state or county.

To be considered "educationally eligible" means you do not meet the usual Fredonia admissions standards. However, you must demonstrate academic potential, proper motivation, and a strong desire for a college education. You apply for our EDP program by checking "yes" when answering the EOP question on the SUNY application. Transfer applicants receive consideration if they have previously been enrolled in a similar EOP/HEOP/College Discovery/SEEK program.

If you attended a college that does not have a EOP-type program, then we attempt to determine whether you would have been deemed eligible for EOP at the time of your acceptance to the other college.

For more information about the Educational Development Program support services, please refer to page 190 of this catalog.

Joint Admission: SUNY Fredonia has implemented joint admission agreements with several two-year colleges, both public and private. Joint admission program students request admission to Fredonia by applying to the admissions office at the two-year college and completing requirements for the associate degree.

You must meet all requirements as stated in our college catalog and the joint admission agreements in order to continue with your studies at Fredonia. You may obtain information from our transfer counselor in the Office of Admissions at Fredonia or the two-year college.

Time-Shortened Degree Program. Students enrolling at Fredonia may select from a variety of individually determined and contracted time-shortened degree options. Because some academic programs at the college are incompatible with the time-shortened degree, counseling from an academic or admissions counselor is advisable. The following options are available:

1. Early Admission. Accelerated high school juniors who wish to enroll as college freshmen without a high school diploma, may apply for early admission. We expect applicants to have completed four units of study in college preparatory mathematics and sciences and a sequence in foreign languages with above-average academic achievement and SAT or ACT scores. Your high school counselor must submit a recommendation in support of your request for early admission. Since Fredonia does not award you a high school diploma you must make arrangements to receive high school credit for your college course work in lieu of the courses you would have taken in your senior year.

2.3-1-3 Program. Local area high school juniors interested in beginning college during the senior year of high school may wish to explore this opportunity. 3-1-3 stands for three years of high school, one year cooperatively taught by an area high school and SUNY Fredonia, and three years at the college. As a 3-1-3 applicant you must present above-average test results on the PSAT, SAT or ACT, and a B high school average.

A counselor recommendation is required. Submit the SUNY application available in your guidance office and select curriculum code 0199. A conference with you and your high school counselor will develop your joint college and high school class schedule. For more information, see page 186.

Advanced Standing Credit

Credit by Examination. The college welcomes the opportunity to allow you to complete graduation requirements at an accelerated rate by submitting the results of proficiency examinations for credit evaluation. You may earn up to 30 semester hours of credit by examination through the following programs:

Advanced Placement. Submit the results of your Advanced Placement Examinations to the Office of Admissions. If you achieve a score of three, four, or five you will receive placement and/or credit. These examinations fulfill requirements in the College Core Curriculum Program (liberal arts core courses).

College- Le vel Examination Program. CLEP General Examinations substitute for some of the College Core Curriculum requirements. Subject Examinations substitute for specific course requirements. To determine which examinations are acceptable for credit, check with the Office of Admissions before scheduling one of the tests. We accept most, but not all, examinations for credit toward graduation. You must score at the fiftieth percentile in order to receive credit.

College Course Work. A number of freshman applicants seek transfer credit for college courses successfully completed while enrolled in high school. Submit an official transcript from the college awarding credit indicating that you have successfully completed course work. While credit hours may be awarded toward graduation, your grades do not transfer to Fredonia as part of your Fredonia grade point average.

Military Service Experience. Credit for military service experience and education is evaluated on an individual basis according to the guidelines established by the American Council on Education. Forward official transcripts and documents to the Office of Admissions for evaluation.

International Students

SUNY Fredonia welcomes applications for admission from international students. We provide assistance in matters of orientation, housing, personal concerns, and immigration. American students, the faculty, and the Fredonia village community take special interest in students from other countries, whose contribution to campus life is recognized and valued.

As an international student you must initiate your application well in advance of your intended first semester at Fredonia. Request your application by writing to the Office of International Education. If your native language is not English you must submit the results of the Test of English as a Foreign Language (TOEFL). All your academic records should be accompanied by certified translations if they are presented in a language other than English. Include brief course descriptions of subjects successfully completed (and an explanation of the grading system) with your credentials. We require certified verification of sufficient financial resources as part of the application process.

Readmission/Reinstatement

Students who have withdrawn from the college and wish to return may obtain an application for

readmission/reinstatement from the Off ice of Admissions. Requests are reviewed by the appropriate Dean (readmission) or the Vice President for Student Affairs (reinstatement). Students who withdrew in good standing are generally eligible for reinstatement if space is available in the requested major. Individuals who were required to withdraw for academic reasons are not eligible for consideration until at least one academic semester has elapsed, and should present evidence of successful achievement at another college. The Dean's office evaluates current academic achievement, potential for academic success, and work experience when reviewing applications for readmission.

Students with a cumulative quality point average of less than 2.00 who have been readmitted to the college may return with their original cumulative academic record or with a readmission petition.

Under the readmission petition, a new quality point average is established from the time of readmission to graduation. The total academic record achieved from the time of initial enrollment at SUNY Fredonia will be entered on the transcript, but no credit will be awarded for "D grades earned prior to readmission. The cumulative quality point average will reflect only the average since readmission, and a minimum of 45 additional credit hours of graded work must be completed at SUNY Fredonia prior to graduation and after readmission.



EXPENSES

This section presents an estimate of the cost of attending SUNY Fredonia for one year. College charges (tuition, fees, room rent, board) are paid on a semester basis, at one-half of the rates listed below. The semester charges must be paid on or before the registration date for each semester. Students will receive up-to-date information concerning charges and payment procedures several weeks prior to the registration date.

All charges are subject to change.

Estimated expenses per year for a full-time (12 or more credit hours) *undergraduate:*

Annual College Charges Applicable to All Students

* Tuition

In-Stat Out-of-					 \$3,400 \$8,300
College	Fee.				 \$25
Student	Services	and	Programs	Charge.	 \$955

Additional	Charges	for	Residents	in	College
Residence	Halls				
Room Rent					\$3,800-5,700

Board (Food Service) \$2,250-2,950

Estimated Additional Costs

Books	and	Supplies	 \$750
Persona	al		 \$600
Transpo	ortatior	۰۰۰۰۰۰	 \$527

New students who have paid a \$50 Advance Admission Deposit will have this amount deducted from the tuition charge for their initial semester at SUNY Fredonia.

Part-Time Study

* In-State Tuition	\$137	per	credit	hr.
* Out-of-state Tuition	\$346	per	credit	hr.
College Fee.	\$.85	per	credit	hr.
Student Services & Programs Charge \$	39.80	per	credit	hr.

* State University policy requires that a student be a resident of New York State for one year prior to registration in order to qualify for in-state resident tuition charges. Contact the Office of Student Accounts for complete information governing residency requirements.

Note: In January 2003, the SUNY Board of Trustees approved an annual tuition increase of up to \$1,400. A final figure was not approved at press time for this catalog. Please contact the Office of Student Accounts for up-to-date information.

All rates and fees are subject to change. See the Student Accounts web page for the current college charges at www.fredonia.edu/admin/student accounts/

College Fee

This is a uniform, mandatory charge for all students, established by the State University.

Student Services and Program Charge

The Student Services and Program Charge combines all college fees for student services, programs and activities in one composite amount for all students. As a result, there are no general college fees; there are no additional mandatory fees once a student arrives on campus (although some departments may assess individual departmental fees). The Student Services and Program Charge includes support for the following programs and activities:

Advanced Technologies for Classroom Use AIGA/Art Forum Alumni Affairs Bicvcle Use on Fredonia Campus Birth Control Information Center Blue Devil Fitness Center Campus Community Bus Campus Internet Access Campus Microcomputer Labs Campus Fine Arts Central Box Office College Special Events College Transcripts Counseling Center Coupons for Discounts at Area Merchants Cross Country Skis at College Lodge Fredonia College Jazz Workshop Intercollegiate Athletic Sports Program Intramural and Recreational Program Legal Services Homecoming Weekend Events Microcomputer Support On-Campus Student Employment On-site Medical Care Health Education Programs Medical Laboratory Work Over-the-counter Medications Prescription Medications Wellness Checkup Orientation Program Parents Weekend Events Parking Services Parking Shuttle Service Student Government Student Organizations and Clubs Student Scholarships The Leader (College Newspaper) Upper Class Buddy Program Van Service to Hospital/Clinic Fredonia Radio Systems WNYF-TV

Student Group Health Insurance

All students are advised to obtain the Student Health Insurance provided by the college unless covered by comparable insurance. The health insurance covers a major portion of hospitalization costs not provided under the student health program.

Room Rent

The standard rate when two persons are assigned to a room is \$1,900 per semester. If a single room is requested and if one is available, the cost is \$2,850 per semester. Apartments, where available, are \$2,200 per semester. Inquiries as to charges and accommodations should be addressed to the Office of Residence Life, Gregory Hall. (Figures reflect 2003-04 rates.)

Students who have paid the \$50 Advance Room Deposit will have this amount deducted from their room rental charge upon payment of charges.

The rates indicated above are subject to change on a yearly basis. Please contact the Office of Residence Life for current charges.

Board (Food Service)

College policy requires all on-campus residents to select from a variety of full board plans if they are residing in non-apartment style residence halls. Seniors, and residents of Disney and Eisenhower apartments and selected dorms are not required to maintain a meal plan, however, they may choose any plan.

FSA offers both declining balance (points) and traditional meal plans to suit the needs of each student. The costs for meal plans are estimated per semester and are subject to change. Costs begin at \$1,125 for resident students required to participate in a meal plan. Special meal plans are available for commuter students.

Unused points from the fall semester may be rolled over to the spring semester adhering to the college policy. However, students must select a meal plan for the spring semester in order to receive the rollover. No refund of unused points will be given if the student does not return for the spring semester. Unused points do not roll over to the following fall semester.

Specific information concerning pricing and descriptions of each plan may be obtained by contacting the FSA office in Gregory Hall or calling (716) 673-3417, Ext. 228, or see the FSA web page at www.fredonia.edu/fsa.

Miscellaneous Fees, Fines or Deposits

All of the major college expenses have been outlined. However, individual courses may require payment of a lab fee that will be reflected on the student's semester bill. Please consult the *Course Offerings Bulletin* for specific courses and charges. Students majoring in Music Education, Music Applied Studies, Theory of Music, Performance, Music Composition, Sound Recording Technology, Music Therapy, Music History/Literature and Musical Theatre (B.F.A.) are assessed a \$150 Music Fee each semester.

In addition, the State University authorizes charges for such items as returned checks (\$20), late registration (\$30), rebilling (\$30), and drop/add fees (\$15). Fines are authorized for parking violations, the late return or loss of library materials, and failure to return physical education or infirmary equipment. All fees are subject to change.

State University Refund Policies

The Advance Admission Deposit of \$50 is refundable until April 30 (November 1 for spring enrollment) or 30 days after the day of acceptance, whichever is later. After this it may not be refunded except in case of withdrawal for reasons beyond the control of the student and with approval of the College President or his/her designee.

The Advance Room Deposit of \$50 is refundable until July 1 (December 1 for spring enrollment). Refunds may not be made after this date except in cases of withdrawal for reasons beyond the control of the student and with approval of the College President or his/her designee.

Tuition. A student withdrawing from college or individual courses during the semester is eligible for the following tuition refunds:

100% for withdrawal during the first week of classes 70% for withdrawal during the second week of classes 50% for withdrawal during the third week of classes 30% for withdrawal during the fourth week of classes 0% for withdrawal beyond the fourth week of classes

A full refund of tuition may be granted if a student must withdraw for reasons beyond his/her control with the approval of the College President or his/her designee.

The College Fee is not refundable after registration.

Refunds for the *Student Services and Programs Charge* are granted based on the week of withdrawal following the same schedule listed above for tuition.

Residence Hall Room Rental. Once a student has registered for and occupied a room in a college-operated residence, no refund may be made except in cases of withdrawal beyond the control of the student and with approval of the College President or his/her designee. Rooms are contracted for the entire academic year and cannot be canceled during this period as long as the student is registered. There is a fee of \$200 for approved termination of the housing license.

Food Service is refundable on a pro-rated basis, less a small service charge, only upon withdrawal from college.

Refund/Repayment of Financial Aid Due to Discontinuance of Study

This policy is utilized when a student has received Title IV federal funds (such as: Subsidized/Unsubsidized Stafford loans, Perkins Loan, PLUS Loan, PELL grant, SEOG grant) and discontinues study prior to the completion of the semester for which the Title IV funds were disbursed.

A student's charges will be reduced based on the SUNY policy stated above. The purpose of the repayment calculation is to determine the amount of Title IV federal aid the student is eligible for and insure that the student has not been over awarded federal financial aid due to the student's withdrawal. The initial step in the calculation is to identify all of the Title IV federal aid that the student is eligible for in the semester that the student withdrew. If a student is subject to the 30-day delayed disbursement, as a first time borrower, and withdraws during the first 30 days, the student is not eligible for the Stafford Loan, and it will not be included in the calculation.

The next step is to determine the number of days the student was enrolled for the semester and divide that by the total number of days in the semester to calculate the percentage of Title IV federal aid earned by the student. If this percentage is greater than 60 percent, the student is eligible for 100 percent of their Title IV federal funds. However, if the percentage of Title IV federal aid earned is less than or equal to 60 percent, the percentage is then multiplied by the amount of Title IV federal aid the student has been awarded for the semester. This determines the amount of Title IV federal aid that the student is eligible for and can be applied toward their charges for the semester they withdrew.

Now a comparison is done between the amount of Title IV aid that the student is eligible for and the amount that has already been disbursed onto the account. If the disbursed amount is less than the eligible amount, any additional funds up to the eligible amount may be disbursed to the student's account and then to the student if any excess funds are available. If loan proceeds are to be utilized as a late disbursement, the student (or parent for a Plus Loan) will be notified.

If the disbursed amount is greater than the eligible amount, the student has been over awarded due to their discontinuance of study. When a student has been over awarded, the amount of earned aid is subtracted from the amount of disbursed aid to determine the amount that the student is not eligible for. Any Title IV federal aid that the student is not eligible for must be returned to the appropriate federal program. Title IV federal aid is returned in the following order: Unsubsidized Stafford Loan, Subsidized Stafford Loan, Perkins Ioan, PLUS Loan, PELL grant, Federal SEOG grant, and other Title IV program aid excluding Federal Work-Study.

For additional information regarding the repayment of Title IV federal aid, please contact the Student Accounts Office.

BILLING PROCEDURES AND PAYMENT REQUIREMENTS

Billing Procedures

Students who have course selected prior to the start of a semester will receive a bill from the college approximately five weeks prior to the start of the semester. A student must send in the required payment prior to the billing deadline date. Failure to make payment will result in a re-billing charge. It is the responsibility of the student to notify the Student Affairs office if they are not returning so that the charges may be removed and courses may be dropped.

Students are billed for each semester individually. The college bill lists the following mandatory charges: Tuition, College Fee, and Student Services and Programs Charge. Charges for Residence Hall Room Rental, Food Service, Course and Music fees may also be included on the bill. A deduction from the total billed amount is made for the Advance Admission Deposit (\$50) and Advance Housing Deposit (\$50) when applicable. Deferments are granted only for authorized deferrable financial aid.

Deferment Policy

Deferment of college charges is not permitted except for approved, deferrable financial aid. Estimated financial aid awards may not be used as deferments. Financial aid awards that may be used as deferments against college charges include:

Tuition Assistance Program (TAP Awards) Stafford Student Loans Veterans' benefits PELL Awards Supplemental Education Opportunity Grants (SEOG) Perkins Loan Aid for Part-Time Study (APTS) Private Scholarships (only when they are payable directly to the college) Academic Management Services (AMS) Parent Loans Alternative Student Loans

College Work Study Awards and personal loans are not deferrable against college charges.

Payment Requirements and Distribution of Financial Aid

Full payment, less approved deferrable financial aid and pre-payments, must be made by the deadline date. Cash, personal checks, money orders, VISA, Mastercard and Discover are all acceptable forms of payments.

Students attending In-Person Registration will have a bill mailed to their home and local address at or near the end of the first week of classes. The due date for payment will be approximately two weeks later. A Re-billing charge of \$30 will be added to an account outstanding as of the close of business on the due date.

The majority of financial aid is distributed during the third and fourth week of classes. Tuition Assistance Program (TAP) funds are not distributed until after mid-semester. Students who file for their financial aid late will receive their aid later in the semester.

All financial aid received by the college is applied to student accounts on a first received, first applied basis after allowing for a pending Tuition Assistance Program (TAP) Award. Excess financial aid is generally returned to students within two business days. Checks that are not picked up in the college Office of Student Accounts are mailed to home addresses.

Failure to Pay College Charges

Due to changes in a student's registration status, residence hall occupancy, food service selection or a reduction in financial aid, the Office of Student Accounts will bill students monthly throughout the semester. Students who fail to make timely payments will be assessed a \$30 Re-billing charge each time their account is billed.

A student who fails to pay any college related charges (this includes tuition, fees, library and parking fines and expenses for equipment and supplies) prior to the end of the current semester will be placed on the college "hold" list. A student whose name appears on the "hold" list will not: receive his/her diploma at graduation, be permitted to

register for additional semesters at SUNY Fredonia or receive a copy of his/her college transcript.

A student who fails to make payment to the college at the end of the semester will be referred for further collection efforts to the New York State Attorney General's Office in Albany or to a collection agency contracted by the college. Accounts transferred to these agencies will be subject to additional charges for interest and collection costs of up to 22 percent.

SCHOLARSHIP OPPORTUNITIES

Newly Accepted Students

SUNY Fredonia awards merit-based scholarships to academically qualified students who have been accepted to the college. Scholarship applications are sent to all accepted students. Competition is keen, and students are encouraged to apply early for scholarships that match their achievement levels.

Awards are made on a rolling basis beginning Feb. 15. Applications are closed when all scholarships are awarded.

Scholarships awarded and minimum criteria for consideration:

Foundation Freshman Award:

- \$3,000 one-time award
- 91 high school average (unweighted)
- SAT 1250 or ACT 28

Fredonia Achievement Award:

- \$1,000 one-time award
- 89 high school average (unweighted)
- SAT 1150 or ACT 25
- 3.0 college GPA for transfers
- · MUST live in college residence hall
- available to freshman and transfer students

involvement in varied extracurricular activities

Fredonia Award for Excellence:

- \$2,500 renewable award
- 92 high school average (unweighted)
- SAT 1250 or ACT 28
- MUST live in college residence hall
- must achieve minimum 3.25 GPA to retain award

Scholar Incentive Award for Out-of-state Students:

- \$3,500 renewable award
- 90 high school average (unweighted)
- SAT 1250 or ACT 28
- MUST live in college residence hall
- must achieve minimum 3.25 GPA to retain award
- · Non New York State Resident

New York State Empire Minority Honors Award:

- \$1,000 renewable award
- offered to students from an under-represented
 aroup
- minimum 87 high school average (unweighted) to be considered

Keeper of the Dream Scholarship (five awards)

- \$3,000 to \$5,000 renewable award
- Involvement in multicultural activities, leadership, community service
- Top 10 percent of graduating class or
- 87 high school average (unweighted) or
- 1100 SAT or 25 ACT
- Commitment to pluralism
- MUST live in college residence hall
- Separate application and essay required For application, contact the Office of Multicultural Affairs at 716-673-3398

Alumni Legacy Award (10 awards)

- \$3,500 renewable award
- 90 high school average (unweighted)
- 1200 SAT or 27 ACT
- Must be a child or grandchild of a SUNY Fredonia graduate
- Non-New York State resident
- MUST live in college residence hall
- Must achieve minimum 3.25 GPA to retain award

Transfer Award

In the spring of each year, scholarships are awarded to transfer students who have demonstrated outstanding academic achievement and who have earned an associate degree from a SUNY two-year college. There is no application, students are evaluated by their college transcript and notified in late spring.

Enrolled Students

In February of each year, students with a minimum 3.50 cumulative grade point average are automatically invited to apply for scholarships. The awards range from \$100 to \$1,500 and are based on academic achievement.

Alumni Scholarships

The Fredonia Alumni Association awards scholarships yearly to students who are children and grandchildren of Fredonia alumni. Interested persons should contact the Alumni Affairs office at (716) 673-3553 for more information.

For information on scholarships open to all majors, contact the College Scholarship Committee, Office of Student Affairs. sixth floor Maytum Hall. (716) 673-3271.

Economics

Hart-Gorman Economics Award Departmental Scholarships/Awards Arthur R. Maytum Scholarship Following is a list of scholarships that are awarded through Outstanding Senior in Economics the academic departments. The awards are based on Outstanding Sophomore in Economics academics, talent, financial need or other criteria Education established within the discipline. Interested persons should Fanny Bartlett Award contact the department in their major directly to obtain Thelma Brynolfson Scholarship specific requirements and application procedures for the Helen Buderkin Award awards. Anthony M. Deiulio Memorial Scholarship Art (Visual Arts) Philip Kochman Scholarship Alford Bjurlin Scholarship Helen Kelly Lillie Award George Booth Visual Arts Scholarship Richard and Arlene LoGuidice Award Chautauqua Craft Alliance Award for Excellence in Art Floyd and Mabel Smith Melvin Scholarship Fredonia Potter's Co-op Scholarship Samuel F. Nixon Memorial Scholarship Marano/Gnirke Scholarship Carol Scrace Pierce Award Robert W. Marvel Award Louis E. Raths Scholarship Biochemistry School of Education Endowment Scholarship Mary J. Marletta Scholarship Teacher Education Award Gustave and Geraldine Werner Scholarship Biology 1929 Graduate's Bioethics Award Wolfenden Scholarship Constantine Barker Fund for Biology Marjorie E. Woods Scholarship Biology Department Scholarship Educational Development Program Archer and Mabel Fox Scholarship Ralph Wilson Jr. EDP Book Award Bruce and Nancy Garlapow Memorial English Holmberg Fund 1929 Graduate's Nineteenth Century Literature Award Alice Sam Biology Scholarship John and Eleanor Courts Scholarship Willard Stanley Memorial Scholarship Crescence Ehmke Graham Scholarship Business Administration Freshman, Advanced and Graduate Writing Awards Donald C. Brandt Memorial Scholarship Henry F. Salerno Scholarship Business Department Endowment Howard Herkimer and Hildegarde Maytum Strong M.R. Poummit Achievement Award Scholarship S.I.F.E. Music Business Award Mary Louise White Fund Undergraduate Writing Award Chemistry Analytical Chemistry Award Environmental Science David Dingledy Award Herbert Clark Mackie and Marion C. Mackie Award Roy Keller Award Foreign (Modern) Languages Gilbert and Ruth Moos Outstanding Senior Award Robert Rie Scholarship Outstanding Senior Award Geosciences Outstanding Teaching Assistant Walther M. Barnard Scholarship Byron Thumm Scholarship Fahnestock Memorial Fund Communication Geosciences Alumni Textbook Scholarship Fund Louis C. and S. David Adler Scholarship Roy A. MacDiarmid Award Anne Bernstein Memorial Award Susan Mara Scholarship Corydon Crowell Memorial Fund Mark D. and April Hoefner Orgren Scholarship Edward S. Edelman Scholarship Paul D. Willette Scholarship Arthur R. Maytum Scholarship Health, Wellness and Recreation Arlie Muller Parks Award Depledge/Poummit Basketball Award for Graduating Computer Science Senior John Beck Memorial Scholarship Sandra Haight Memorial Scholarship Arthur R. Maytum Scholarship Doris Newman Memorial Scholarship Cooperative Engineering History Herbert P. Carlyon Scholarship William and Helen Chazanof Award Cooperative Engineering Scholarship MacPhee Scholarship Criminal Justice Outstanding History Major

Steven C. Croglio Endowment

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Mathematics Earl G. Mathewson Scholarship

Frank R. Olson Scholarship

Music

Carol Hepp Adragna Music Education Scholarship Charles D. Arnold Scholarship Lucia Gracia Bolton Scholarship Bromeley Piano Scholarship Lisa Nielsen Burkett Piano Scholarship Elizabeth S. Carlyon Piano Scholarship Max and Anne Davis Piano Scholarship Evans Voice Performance Scholarship Frazeur Percussion Scholarship Herbert W. Harp Memorial Scholarship Hillman Memorial Music Scholarships Kilduff Voice Scholarship Harry King Memorial Award Brigitte Larson Award for Excellence in Instrumental Music Education John A. Maier Memorial Scholarship Elizabeth Marsh Memorial Scholarship Howard Marsh Memorial Scholarship Robert W. Marvel Award Virginia Whipple Maytum Music Scholarship Monroe-Poummit Big Band Award Vincent Morette Memorial Scholarship N.Y.S. Federation of Home Bureaus/Elizabeth Marsh Scholarship Sid Olshein Memorial Scholarship Poummit Concert Master Award Poummit Faculty Recognition Award in Memory of Vivian Robe and Catherine Lane Juliet J. Rosch School of Music Endowment Lawrence Schauffler Scholarship School of Music Scholarship Isaac Stern String Scholarship Anthony S. Strychalski Memorial Scholarship A.L. Van Keuren Memorial Award Voice Faculty Scholarship Francella Pattyson Widmer Endowment Margaret Shuler Wyckoff Scholarship

School of Music Scholarships are awarded to qualified new and returning students. Factors considered in awarding scholarships are financial need, music talent, academic achievement and service to the School of Music. Students wishing to be considered for scholarship assistance must submit the Free Application for Federal Student Aid. Prospective students must also audition prior to March 15 for fall semester scholarship consideration. Questions regarding music scholarships should be directed to the Director of the School of Music, Mason Hall.

Philosophy

Philosophy Department Endowment

Physics Hack Arroe Memorial Scholarship John J. Connelly Physics Scholarship Physics Department Endowment Political Science Erna G. and J. Murdoch Dawley Award Political Science Alumni Endowment Political Science Faculty Endowment John R. Quatroche Jr. Political Science Scholarship J.R. Soukup Pi Sigma Alpha Awards Psychology Donald John Lehr Endowment Psychology Merit Award Science Phyllis and Lawrence Patrie Science Endowment Sociology Outstanding Senior Award Pathology/Audiology Speech Constantine Barker Fund Mitchell R. Burkowsky Memorial Award Esau A. and Susan S. Sam Scholarship Schaffer Family Endowment Rebecca Snyder Memorial Scholarship Lt. Gen. Louis E. Woods Scholarship Henry C. Youngerman Memorial Award Theatre and Dance 1929 Graduate's Classical Ballet Award Alice Bartlett Award Harry John Brown Memorial Fund Jack L. Cogdill Scholarship Keith Cronin Memorial Award Gary C. Eckhart Technical Production Award Walter Gloor Scholarship Trent Illig Memorial Scholarship Robert W. Marvel Award Gertrude Prushaw Maytum Scholarship John S. Mintun Scholarship N.Y.S. Federation of Home Bureaus/Sally Bulger Scholarship President's Award Steven Rees Rising Junior Award Theatre and Dance Outstanding Senior Award Bea Ullman Scholarship

Scholarships and awards listed below are awarded to incoming students and continuing students who demonstrate outstanding academic aptitude, financial need and/or personal qualifications, and who have been recommended by the College Scholarship Committee. Separate applications are not always required. In some cases qualified students are automatically considered for selected scholarships and a wards based on pre-established criteria.

Alumax Scholarship Alumni Association Children of Alumni Award Alumni Association Grandchildren of Alumni Award Alumni Association Transfer Award Alumni Association Undergraduate Award AAUW Scholarship Annual Dallas K. and Elizabeth W. Beal Award Beaver Club Scholarship Borzilleri-Gugino Scholarship Roland C. Burton Scholarship Ruth Tice Callahan Award Carnahan-Jackson Scholarship Class of 1939 Class of 1942 and 1943 Scholarship Class of 1950 Scholarship Class of 1952 Scholarship Laura B. Cole Scholarship Evelyn Lawson Coleman President's Scholarship Robert E. Coon Recognition Award Council for Women's Concerns/Marion Sonnenfeld Scholarship Deming Family International Study Scholarship Kelly Early Scholarship Empire State Minority Scholarship Faculty/Staff Scholarships Faculty Student Association President's Scholarship Foundation Freshman Scholarships Fredonia Rotary Scholarship Fredonia Scholar Endowment Fund Malcolm J. French Memorial Award Maureen Fries Scholarship Joseph T. Gallagher Scholarship Zola Graf Scholarship Gregory Fund Robert and Elinor Grennell Scholarship Lena M. Harmon Award Velyne and Lynn A. Hawkins Scholarship Fanny A. Hayward Award S.C.W. Horn Parent Scholarship Harold Hopkins Fund Maniiro Inoue Fund International Student Assistance Fund Mamie and Ira Jordan Minority Scholarship Keeper of the Dream Scholarship George and Elane King Award Raymond Lai Scholarship Lake Shore Savings Scholarship Charlotte Putnam Landers Award Lanford Presidential Prize Horace O. Lanza Scholarship Michael C. Lemieux Balanced Man Scholarship Lundquist Endowment M & T Keeper of the Dream Scholarship Dorothy French Manley Scholarship Maytum Family President's Scholarship

Vivian R. McCullor Scholarship Jeanette Wheeler Mills Scholarship Stephen Morse Memorial Fund Jenny Crecraft Olsen Award Anthony Patti Memorial Award Greg and Linda Prechtl Scholarship Barbara Rose Memorial Scholarship Patricia M. Rushboldt Credit Union Scholarship Betty Norr Saveth Scholarship Roger C. Seager Presidential Scholarship Kurt and Sibylla Sonnenfeld Scholarship Steele Family Scholarships Thomas Stocky Memorial John R. Symans Memorial Award Wal-Mart Scholarship Wilma Watson Memorial Scholarship Welch's/National Scholarship Sons of Karen West Scholarship William and Mary J. Whipple Keeper of the Dream Scholarship Louise E. Wilder Scholarship Yvonne Wilensky Scholarship Winch Endowment Dr. Nelson C. Wood Scholarship Woods and Earl Memorial Fund

FINANCIAL AID

The primary objective of college financial aid is to assist degree students with college expenses.

Students are encouraged to check the World Wide Web site (http://www.fredonia.edu/finaid) for current information.

How Do I Apply? What Form Do I Use?

If you applied for federal student aid for the current school year, you will be able to file a Renewal Free Application for Federal Student Aid (FAFSA). This preprinted Renewal FAFSA will be mailed directly to your home address by the U.S. Department of Education or is available on-line at www.fafsa.ed.gov.

If you are a new financial aid applicant or did not apply for federal student aid during the current school year, you can apply for federal aid by completing and submitting the Free Application for Federal Student Aid (FAFSA) using SUNY Fredonia's school code of 002844.

You may submit a FAFSA

- through the Internet by using FAFSA on the Web at www.fafsa.ed.gov
- by mailing a paper FAFSA

FAFSA on the Web is a free U.S. Department of Education web site where you can complete your FAFSA online and submit it via the Internet using a personal computer (PC) that is equipped with certain versions of Netscape or Internet Explorer.

To apply for the New York State Tuition Assistance Program (TAP) grant, you must complete the NYSHESC generated preprinted Express TAP Application (ETA) using Code 0915 for state assistance. Students will be able to apply on-line via the Internet for TAP during the 2003-04 award year at www.fafsa.ed.gov.

Where Do I Get These Applications?

The paper Free Application for Federal Student Aid application (FAFSA) is available from any high school guidance office or any financial aid office.

The Renewal Free Application for Federal Student Aid application is mailed directly to prior aid recipients by the U.S. Department of Education.

The preprinted Express TAP application (ETA) is mailed directly to students by the New York State Higher Education Services Corporation (NYSHESC).

It is the student's responsibility to submit the FAFSA and the Express TAP Application (ETA) each year. Financial aid awarded for the freshman year or any other year does not guarantee aid for subsequent years.

When Do I Apply?

Early application is strongly encouraged. Applications cannot be submitted before Jan. 1, but you should be applying in January and February if at all possible. Since funds are limited, early applications are given first consideration. For additional information concerning the application process, check our web site at www.fredonia.edu/finaid/

When Will I Hear About My Financial Aid?

- Starting in March, prospective students will receive a Financial Aid Award Letter that will list all federal, state, and institutional aid that the applicant is eligible to receive.
- These awards will provide each applicant with an idea of the semesterly awards from each federal and state aid program.
- If you have been awarded a Federal Work Study position, a Federal Perkins Loan andlor a Federal Subsidized/Unsubsidized Stafford Loan, you must go to www.fredonia.edu to accept, decline or accept partial amounts of these awards. Refer to your award letter for instructions.
- 4. To change Federal awards to an authorized status, applicants may be required to go through a process called Verification. Federal tax returns of the student and the parents must be submitted, if requested, to verify the accuracy of the data submitted on the original financial aid applications.
- 5. Through the summer the financial aid office processes student aid paperwork with the intention of making aid actual for credit on the college bill by mid-July.

Students must submit paperwork on a timely (as early as possible) basis.

How is Aid Awarded?

Applicants for aid are considered based on all of the following criteria:

- 1. Funds available to the college from governmental sources.
- 2. Financial eligibility as determined by the FAFSA processing.
- 3. Date of receipt of FAFSA results from the Federal Central Processor.

Verification

Many financial aid applicants will be required to verify the information that is reported on the FAFSN/Renewal FAFSA. Financial data such as income, taxes paid, and non-financial data such as family size and dependency status will be verified. For this reason, it is extremely important that the figures you report when completing or correcting the FAFSN/Renewal FAFSA are accurate. If there are any discrepancies in the data that was submitted on the FAFSN/Renewal FAFSA, the aid originally awarded will be revised (either increased or decreased). Save copies of student's and parent's signed tax returns, since these documents may be requested. A verification worksheet will also be sent to you for completion. You should be aware that by not submitting the required tax forms (W-2 Forms are not acceptable) and verification worksheet as requested, all aid is placed on hold, including loans.

2002-2003 College Costs

	N.Y.S. Resident	Out-of-state Resident
Tuition and Fees	\$4,373	\$9,273
Room and Food	\$6,510	\$6,510
	10,883	15,783

Although every effort is made to keep college costs as low as possible, the cost can change during the year. The above figures are subject to change but were accurate at the time of printing. Students should plan on other indirect expenses (books, transportation, personal costs) which may range from \$1,500 to \$2,000 for an academic year.

Good Academic Standing and Receipt of Undergraduate Financial Aid

Requirements

State and federal regulations require that all financial aid recipients maintain program pursuit and make satisfactory academic progress toward completion of degree program requirements. The Financial Aid Office at SUNY Fredonia evaluates student aid academic progress according to State requirements for TAP and APTS at the completion of each semester and according to Federal requirements for SEOG, PELL, Work Study, Perkins, Stafford and Parent loans at the completion of the academic year. All three criteria in the charts below must be met in order to retain financial aid for the following semester. If a student withdraws from a course, it may affect his/her aid for the next semester.

GOOD ACADEMIC STANDING CHART FOR STATE AID (TAP, APTS)

Before receiving this TAP payment you must meet all 3 criteria below	1	2	3	4	5	6	7	8	• 9	• 10
Receive passing/ failing grade for this percent of credit hours attempted during last semester	0	50% ft=6 pt=3	50% ft=6 pt=3	75% ft=9 pt=6	75% ft=9 pt=6	100% ft=12 pt=6	100% ft=12 pt=6	100% ft=12 pt=6	100% ft=12 pt=6	100% ft=12 pt=6
Must have accrued at least this many total credits	o	3	9	18	30	45	60	75	90	105
Maintain at least this Grade Point Average	0	1.00	1.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00

ft = full-time pt = part-time

* Only students in approved five-year programs (EOP and Medical Technology) are eligible for 10 semesters of undergraduate TAP. All other students are limited to eight semesters of undergraduate TAP.

Repeated Courses. Courses in which the student has already received a passing grade cannot be included in meeting full-time study requirements for state-sponsored financial aid. Repeated courses may be counted toward full-time study requirements if a student repeats a failed course, if a student repeats the course for additional credit, if a student has received a grade that is passing at the institution but is unacceptable in a particular curriculum, or when a student repeats a previously withdrawn course.

Examples of requirements at different TAP payment levels follow:

1. A student who has received seven payments of TAP must complete at least 12 credit hours during the fall, maintain at least a 2.00 cumulative GPA, and have accrued at least 75 total credit hours to receive his/her eighth TAP payment in the spring

2. A student who has received four TAP payments must complete at least 9 credit hours during the fall, maintain at least a 2.00 cumulative GPA and have accrued at least 30 total credit hours to receive his/her fifth TAP payment in the spring.

3. A student who has received three TAP payments must complete at least 9 credit hours during the fall, maintain at least a 1.00 cumulative GPA, and accrue at least 18 total

credit hours to receive his/her fourth TAP payment in the spring.

GOOD ACADEMIC STANDING CHART FOR FEDERAL AID (PELL, Perkins, SEOG, Work Study, Stafford, Parent Loan)

Before receiving Federal aid at this grade level, you must meet all 3 criteria below	Grade Levei 1	*Grade Level 2	Grade Level 3	Grade Level 4	Grade Level 5	Grade Level 6
Receive passing/failing grades for this percent of credit hours attempted during the last two semesters	0 ft=0 pt=0	50% ft=12 pt=6	75% ft=18 pt=9	100% ft=24 pt≕12	100% ft=24 pt=12	
Must have accrued this many total credits	0	12	30	54	78	102
Maintain at least this cumulative Grade Point Average	0	1.00	1.60	1.80	1.90	2.00

ft = full-time pt = part-time

Receipt of federal aid is limited to 12 semesters (for students enrolled full-time), according to Federal Regulation 34CFR PART 668.16.

* *Example:* A first semester sophomore this fall, must have completed a total of 12 credit hours during his/her first two semesters and have a total of at least 12 hours and have at least a 1.00 cumulative GPA to receive federal aid this semester. The student must also complete a total of 18 credit hours and have at least a 1.60 cumulative GPA at the end of the spring semester to continue receiving federal aid for the next fall semester.

Students should be aware that course repeats do not count as a completion in determining Satisfactory Academic Progress.

Example: Two years ago a student received a failing grade for a course and during the current semester repeated it as a junior. To meet progress standards, the student must complete 12 new credit hours during the current semester in addition to the repeated course credit hours.

Part-time students enrolled beyond 12 semesters (up to 24 semesters maximum) must continue to complete 100 percent of hours attempted and maintain a 2.0 GPA.

Notification Procedure

The Financial Aid Office will notify the student between two and four weeks after the conclusion of the fall semester if Satisfactory Academic Progress Standards were not met while the student received state aid and between two to four weeks after the spring semester if Satisfactory Academic Progress Standards were not met while the student received federal and/or state aid. The letter will inform the student of loss of aid for the semester *immediately following* the one in which program pursuit and satisfactory academic progress standards were not met and will also apprise the student of the waiver procedure to follow if the student feels financial aid should be reinstated.

Good Academic Standing Waiver Procedure

A request to reinstate federal or state aid for the next semester at Fredonia will be evaluated and granted only if exceptional circumstances (Le. family illness or death, personal illness, personal emotional disturbances, changes in education objective) can be documented by the student. Waivers of the criteria and reinstatement of aid are not automatic. They are approved only if in the best interest of the student and only if unusual circumstances prevented the student from meeting the expected criteria. A waiver to reinstate state aid is available only once during undergraduate study (with the exception of the "C" average waiver). The waiver request form is mailed with the notification of aid loss to the student by the Financial Aid Office. A student choosing to use the Waiver Process to reinstate aid the next semester at Fredonia should complete and submit the waiver form (with appropriate documentation) to the Office of Student Affairs for evaluation.

TYPES OF AID

Scholarships

For information on Scholarship Opportunities available to students, refer to the section preceding Financial Aid on page 208.

Federal PELL Grant Program

A student may apply for a Federal PELL Grant if enrolled or accepted for enrollment as a degree student for at least 3 credit hours as a citizen or permanent resident of the United States.

The college will notify the student of the amount of the Federal PELL Grant as well as develop the remainder of a financial aid package, which may include awards through such programs as Federal SEOG, Federal Work Study, Federal Perkins and Federal Stafford Loans (see pages 214-216).

The maximum grant which may be awarded is currently \$4,000. Grant amounts are determined by the Federal Legislative process each year.

Federal Work-Study Programs

The Federal College Work-Study Program (CWSP) is a federally funded source of financial assistance used to offset education costs. Eligible colleges administer the program, which provides jobs for eligible students. A full-time student can expect to work up to eight hours a week (on or off campus), at a salary based on local market conditions, years employed in the program and current minimum wage standards. At Fredonia, work skills are determined based on a survey of eligible students, and job assignments are made by the Financial Aid Office. Work-Study earnings are paid bi-weekly directly to the student. Students must meet with their assigned supervisors during the first two days of the semester or the award is canceled and offered to another student.

The "Reading First Program" was implemented at Fredonia during the 1997-98 academic year (the first year of the program's national implementation). This program allows

students who meet certain work-study eligibility and tutor/training criteria to be assigned as tutors to area public school districts. The "Math and Science Partnership Program" was implemented for the 2000-2001 academic year. This program allows students, with a concentration in mathematics, to serve as math tutors in grades kindergarten through nine.

Federal Perkins Loan

This loan program is available to part-time (6 to 11 credit hours) or full-time (12 or more credit hours) undergraduate degree students. On July 23, 1992, the Reauthorization of the Higher Education Act was signed into law, putting into effect the following information:

1. Interest Rate

All loans made after 10/1/80 continue to be assessed at a 5 percent interest rate.

2. Loan Limits

Annual loan limits are established at \$4,000 for undergraduates and \$6,000 for graduate students. In actual practice, the amount varies according to need, dependency status, date of receipt of a complete FAFSA, and generally ranges between \$1,000 to \$1,500 per year. The total amount you can borrow as an undergraduate is \$20,000.

Federal Perkins Promissory Notes must be signed at the beginning of each semester in the Office of Student Accounts.

3. Repayment Conditions

Repayment of loans begins nine months after a student graduates, leaves school, or drops below half-time student status. Repayment is made to the Student Loan Service Center in Albany, N.Y. on a monthly or quarterly basis. You may be allowed up to 10 years to repay.

4. Cancellation and Deferment Provisions

For loans made on or after July 23,1992, part or all of the loans may be canceled for full-time service as:

- · special education teacher
- teachers of mathematics, science, foreign languages, bilingual education
- employees of public or private non-profit child or family service
- agencies providing services to high-risk children from low income communities
- nurse or medical technician

Effective for loans disbursed on or after July 1, 1993, loan payments may be deferred while the borrower is:

- enrolled on at least a half-time basis in an approved college, university, or post secondary institution
- for up to three years during which the borrower is seeking and unable to find full-time employment
- · for up to three years for economic hardship
- engaged in service described under the cancellation provisions

Federal Supplemental Educational Opportunity Grant (SEOG)

This grant, which does not have to be repaid, ranges from \$200 to \$1,000 for an academic year. It is awarded on a yearly basis according to a calculated "Expected Family Contribution." Unlike Federal PELL Grants, there is no guarantee that every eligible student receives an SEOG. SEOG funds are limited and are given to early eligible financial aid applicants.

Federal Subsidized Stafford Loan Program

Applicants must complete the Free Application for Federal Student Aid (FAFSA) to be eligible for all Stafford Loans.

The interest for the Subsidized Stafford Loan is paid by the federal government during in-school, grace and deferment periods and is based on need. A student must be enrolled as at least a half-time degree student (6 credit hours per semester) and must either be a U.S. citizen or permanent resident of the U.S. Upon receipt of FAFSA data from the Federal Central Processor, the Fredonia Financial Aid Office determines loan eligibility and NYSHESC provides an on-line master promissory note for first-time Stafford Loan borrowers for completion at www.hesc.com. This on-line MPN is the only loan application you will need to complete for your Federal Stafford Loan while enrolled at SUNY Fredonia.

Federal Unsubsidized Stafford Loan Program

The difference between the Unsubsidized Stafford Loan and the Subsidized Stafford Loan is that the student has the option to either pay on the interest during their in-school, grace and deferment period or allow it to capitalize and pay the interest when repayment begins. A student must be enrolled as at least a half-time degree student (6 credit hours per semester). We recommend that the student pay the interest if at all possible. This loan was designed to supplement the expected family contribution and is computed by subtracting any actual or estimated financial aid from the cost of attendance. If you are an independent undergraduate or graduate student you are eligible for additional Unsubsidized Stafford. The maximum additional Unsubsidized Stafford Loan that can be requested is \$4,000 per year for the first two years of attendance, \$5,000 per year during both the junior and senior years, and \$1 0,000 per each graduate year.

The Subsidized and Unsubsidized Stafford Loans are similar in the following ways:

Students must complete the Free Application for Federal Student Aid to be eligible to apply for a Stafford Loan.

Eligibility for each loan program is determined by the Financial Aid Office and is printed on your Financial Aid Award letter.

Repayment on principal begins six months after enrollment on at least a half-time basis ends.

The interest rate is a variable interest rate based on the 91 day Treasury Bill plus 1.7 percent, capped at 8.25.

Annual Maximums for Subsidized and Unsubsidized Stafford Loans Combined:

\$2,625	for	Freshmen
\$3,500	for	Sophomores
\$5,500	for	Juniors
\$5,500	for	Seniors
\$8,500	for	Graduates

Aggregate Limits:

- \$23,000 for dependent undergraduates (sub and unsub combined)
- \$46,000 for independent undergraduates with Subsidized Stafford Loans comprising no more than \$23,000 of the total limit
- \$1 38,500 for Graduates with Subsidized Stafford Loans comprising no more than \$65,500 of the total limit

Electronic Funds Transfer: Loan approvals are sent electronically in two separate disbursements (minus a 3 percent origination fee) by the lender to the college.

The first disbursement normally arrives at the Office of Student Accounts one to two weeks after the loan approval by NYSHESC during the academic year. The second disbursement is made at the midpoint of the loan period during the first two weeks of the spring semester.

Federal Parent Loan

For purposes of obtaining a PLUS loan, an eligible parent borrower is a student's natural or adoptive mother or father or the student's legal guardian. A stepparent may obtain a PLUS loan only if he or she is also an adoptive parent or legal guardian. The spouse of a parent who remarried is eligible to borrow a PLUS loan if the spouse's income and assets would have been taken into account when calculating a dependent student's expected family contribution. Any two eligible parents may borrow separately to provide for the educational expenses of the student provided the combined borrowing of the parents does not exceed the calculated cost of attendance minus other aid. PLUS loan applications can be obtained directly at a bank or in the Financial Aid Office. The completed loan application should be submitted to the Financial Aid Office for processing.

The interest rate for a PLUS loan is the 91 day Treasury Bill, plus 3.1 percent, capped at 9 percent.

Alternative Loans

Various banks are making available a new "breed" of loans that are not federally subsidized. These loans are normally a higher interest rate than the Stafford Loan but are available to a student or to a student and co-signer depending on credit history. Students should contact the Financial Aid Office for more information.

Tuition Assistance Program

Students may apply for TAP if they have been legal residents of New York State for one year, are citizens or permanent residents of the United States, and are enrolled or accepted for enrollment full-time in a degree program at an approved institution in New York State. Application is made by completing the FAFSA (using Code 002844) and the FAFSA generated Express TAP Application (using Code 091 5) or on-line at www.fafsa.ed.gov.

Within eight weeks of application, the student should receive an award certificate from NYSHESC in Albany, stating how much money he/she will receive for each semester.

Undergraduate and graduate students can receive TAP for eight semesters (per degree). Depending on the family's net taxable income, students may be eligible to receive grants ranging from \$75 to \$1,712.50 per semester.

Aid For Part-time Study

Funds to help pay tuition costs are only available in this program to undergraduate students enrolled on a part-time basis. Applications are available in the Financial Aid Office. To be eligible a student must:

- · be a legal resident of New York State
- be a U.S. citizen or permanent resident
- · enroll for at least 3 but less than 12 credit hours
- meet the income limits established by the APTS program

Child of Veteran Award Program

Application Procedures: A Child of Veteran Award Supplement, along with appropriate documentation, must be filed initially with the New York State Higher Education Services Corporation for students who have never been previously approved for the award, are attending a college or post secondary school in New York State and meet the eligibility requirements. An application for payment is required for each subsequent year that the award is requested. These forms (supplements, applications) can be obtained from your high school guidance counselor or directly from the New York State Higher Education Services Corporation, 99 Washington Ave., Albany, NY 12255 or by calling 1-888-697-4372.

These forms must be filed before May 1 of the academic year for which the student is applying.

Selection of Recipients and Allocation of Awards: The applicant must be: (1) the child or stepchild (if student is dependent of stepparent) of a New York State Veteran who died, suffered disability of 40 percent or more, was a prisoner of war, or is currently classified as missing in action resulting from service in the U.S. Armed Forces during one of the following periods:

- April 6, 1917 Nov. 11, 1918
- Dec. 7, 1941 Dec. 31,1946
- June 27,1950 -Jan. 31,1955
- Dec. 22, 1961 May 7,1975
- June 1, 1983 Dec. 1, 1987 and be a recipient of an expeditionary medal for service in Lebanon
- Oct. 23, 1983 Nov. 21, 1983 and be a recipient of an expeditionary medal for service in Granada
- Dec. 20, 1989 Jan. 31, 1990 and be a recipient of an expeditionary medal for service in Panama

- Aug. 2, 1990 through the end of hostilities in the Persian Gulf
- Dec. 7,1941 Aug. 15, 1945 and served in the Merchant Marines

and (2) a New York State resident at the start of the term for which payment is requested. The veteran also must currently be a New York State resident or have been a resident at the time of death (if death occurred during or as a result of service), or a student who was born with spina bifida whose parent (s) are Vietnam veterans who served in the U.S. Armed Forces in Indochina between December 22, 1961 -May 7, 1975.

Funding Procedure: Awards are made for full-time undergraduate study at an approved New York State school. Recipients of this award receive \$450 per year without consideration of income or tuition costs. The award may be granted for up to five years, depending on the normal length of the program of study. In addition, recipients may also be eligible for TAP awards, however, the combined Child of Veteran award and TAP cannot exceed tuition charges.

Vietnam Veterans Tuition Awards

Vietnam Veterans Tuition Awards (VVTA) provide up to \$1,000 per semester for full-time study or \$500 per semester for part-time study, but cannot exceed \$10,000 for the life of the award. Vietnam veterans must be matriculated at an undergraduate or graduate degree-granting institution, or in an approved vocational training program in New York State. For further information regarding study requirements and amounts, please contact the Veterans Affairs Office in Room 001 McGinnies Hall at (716) 673-3423.

Persian Gulf Veterans Tuition Award Supplement

The Persian Gulf Veterans Tuition Award (PGVTA) Program provides financial assistance to eligible veterans matriculated in undergraduate and graduate degree programs or enrolled in approved vocational training programs on either a full or part-time basis. To be eligible under this program, the veteran must: (1) have served in the armed forces of the United States in the hostilities that occurred in the Persian Gulf from Aug. 2, 1990 to the end of such hostilities as evidenced by receipt of the Southwest Asia Service Medal; (2) have been discharged from the service under other than dishonorable conditions; (3) be a New York State resident; (4) apply for a Tuition Assistance Program (TAP) award and a Federal PELL Grant if applying as a full-time undergraduate student or for the Federal PELL Grant only if applying as a part-time undergraduate student. The veteran must establish eligibility for a PGVTA before September 1, 2002.

Full-time awards are \$1,000 per semester or tuition, whichever is less. If the veteran also receives a TAP award, the combination of the two awards cannot exceed tuition. Part-time awards are \$500 per semester or tuition, whichever is less. The total of all undergraduate and graduate awards for full and/or part-time study received cannot exceed \$1 0,000. For more information on applying for the award and deadlines contact the Office of Veterans Affairs in Room 001 McGinnies Hall at (71 6) 673-3423.

Veterans Administration Educational Benefits

Those veterans or dependents who are, or feel they are, eligible for federal financial assistance through the Veterans Administration should contact the Coordinator, Veterans Affairs (Room 001 McGinnies Hall, 716 673-3423) or complete appropriate forms. Students are urged to begin their VA paper work before the beginning of the school term in order to hasten processing. To further facilitate the start of benefits, the veteran, or children, spouses, and survivors of veterans whose deaths or permanent total disabilities were service-connected should present pertinent data, such as the service number, social security number, VA claim number, dates of service, discharge papers, and any other VA claim information.

The Veterans Affairs office is staffed by the coordinator and a veteran work-study student and provides routine certification of enrollments. The staff also monitors student progress, and is available for information and referral for problems that might arise. Policy among various administrative offices, as it relates to VA recipients, is also coordinated through the Veterans Affairs office. The coordinator is in liaison with the Regional Office in Buffalo for those situations that might need special attention.

State Aid To Native Americans

Application Procedures: Application forms can be obtained from the Native American Education Unit, New York State Education Department, Room 374EBA, Albany, NY 12234 or call (51 8) 474-0537. Required application materials: (1) completed application form; (2) one of the following: (a) Official High School Transcript, (b) copy of General Equivalency Diploma, (c) College Transcript (if student has completed one or more semesters at the college level); (3) an Official Tribal Certification Form issued by the tribe; (4) copy of college acceptance letter. *Note:* Minor Applicants must have the signature of parent/guardian approving educational plans. These required application materials must be submitted to the above address before July 15 for the fall semester, Dec. 31 for the spring semester, and May 20 for the summer semester.

Selection of Recipients and Allocation of Awards: The applicant must: (1) be a New York State resident, and be on an official New York State tribal roll, or be the child of an enrolled member of a New York State tribe; (2) have a High School diploma, GED, or be enrolled in a special program at an approved post secondary institution which will lead to a high school equivalency diploma; (3) be enrolled in an approved program offered by a New York State college, university, technical, business, nursing or trade school.

Responsibilities of Recipients: Students are required to: (1) submit their grades at the end of each semester for which funding is received, indicating satisfactory progress toward degree or certificate requirements, (2) notify the Native American Education Unit, in writing, of any change in student status, change in program, or institutional enrollment.

Funding Procedure: Eligible students may receive grant awards of up to \$2,000 per year for four years of full-time study (up to five years for approved five year programs). Part-time students will be funded on a pro-rated basis.

United States Bureau of Indian Affairs Higher Education Grant Program

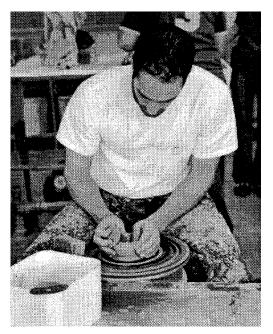
Application Procedures: Application forms are available from the Education Office of the tribe in which you are affiliated or possess membership, and the Bureau of Indian Affairs (Education Line Officer). An application is required for each year of study. An official needs analysis (obtained from your college financial aid office) is also required. This analysis is provided after the student completes the Free Application for Federal Student Aid (FAFSA).

Each first-time applicant must obtain tribal enrollment certification from the bureau agency which records enrollment for the tribe.

Selection of Recipients and Allocation of A wards: The applicant must: (1) be a member of, or at least one-quarter degree Indian blood descendent of a member of an American Indian tribe which is eligible for the special programs and services provided by the United States through the Bureau of Indian Affairs; (2) be accepted for admission to a nationally accredited institution of higher learning which provides a course of study conferring an associate or bachelor's degree; (3) demonstrate financial need.

Responsibilities of Recipients: For subsequent grants, the applicant must make satisfactory progress towards a degree and demonstrate financial need. Depending on the availability of funds, grants may also be made to graduate students and summer session students. Eligible married students may also receive living expenses for dependents.

For additional information about any aspect of expenses or financial aid, please refer to the *Financial Aid Guide*, a publication of the Financial Aid Office.



EDUCATIONAL COMMUNITY OUTREACH

The Native American SUNY: Western Consortium

SUNY Fredonia continues to support the endeavors of the Native American SUNY: Western Consortium, which focuses upon educational access, opportunity, and development for Native American students and communities. The consortium is comprised of representatives of four Native Nations and 11 SUNY campuses in the Western and Central New York area. For more information, students should contact the office at (716) 673-3170 or 1-800-851-5020.

Lifelong Learning and Economic Research and Development

The Office of Lifelong Learning and Economic Research and Development, headquartered in LoGrasso Hall, brings together a unique combination of college and community support services.

Sponsored and Non-sponsored Credit-free Conferences, Institutes, and Workshops. The office works with representatives from community groups and industrial organizations to identify and provide for the specialized educational needs of their memberships.

Lifelong Learning. The college, through this program, makes educational opportunities available to working adults and non-traditional students who wish to explore college study on a part-time basis. Students seeking admission through the Lifelong Learning program may apply using a simplified application procedure. No college entrance examinations are required; however, applicants must submit a high school transcript or GED score report. Applications for admission are available in the Office of Admissions, 178 Central Avenue (Fenner House), or the Lifelong Learning office in LoGrasso Hall.

Qualified students are eligible to enroll in regular day or evening courses, including a number scheduled in the late afternoon and early evening. The Lifelong Learning program is especially appropriate for those who wish to pursue non-degree college studies on a part-time schedule - for personal growth, job advancement, or other reasons. Students will be assigned an academic advisor to assist with course selection. In addition, the college will offer Lifelong Learning programs in the form of seminars, workshops, and symposia in four major categories: education, health care, human and social services, and business and industry.

The college awards a certificate to Lifelong Learning students who successfully complete 30 credit hours of course work. Students are encouraged to seek admission to a baccalaureate degree program at that time. Credit earned through Lifelong Learning course work will apply toward any degree program at the college.

A student with prior experience who is seeking degree study on a full-time or part-time basis should pursue admission as a transfer applicant (see Transfer Admissions, page 202).

Visiting Student Program. Students presently enrolled at another college or university who wish to pursue academic study at SUNY Fredonia for one or two semesters may apply for admission through the Visiting Student Program. Advantages of the program, in addition to expanding academic options, include getting to know other new students, faculty and geographic areas, as well as having an opportunity to see oneself, one's education, and future plans from a new perspective. To qualify for the program, students must receive approval for a proposed academic program from an appropriate official at their present college. Applications are reviewed following the procedures used in evaluating requests for admission from transfer applicants. Registration in specific courses is offered on a space-available basis.

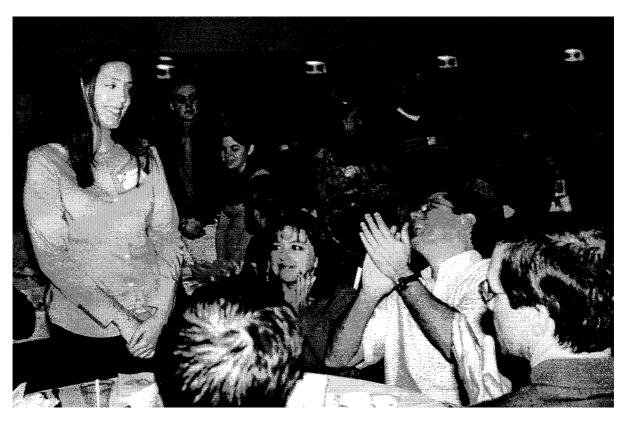
For information on any of the above, students should call (716) 673-3177, or visit LoGrasso Hall.

School of Education

The School of Education has direct implications for change and innovation in teacher education. The campus-wide nature of the school involves the integration of early childhood, childhood, middle childhood and adolescence education components as well as the initiation of a comprehensive field-based approach to educational studies. In addition, the school assumes responsibility for supporting teaching effectiveness, educational research, child studies, development of grant proposals, and international education programs. A newly created Institute for Research in Science Teaching is currently focusing on the improvement of science education through research-based methods and instructional technology. The further development of needed links and partnerships with the public schools in the SUNY Fredonia service area, the Fredonia-Hamburg Teacher Education Center, and the Office of Field Experiences is fostered and enhanced through the School of Education. The school offers international programs for education majors. Through cooperative efforts with the Swansea Institute of Higher Education in Wales, and the University of Plymouth, Rolle Faculty of Education in Exmouth, England, students are afforded the opportunity to engage in a five-week international teaching practicum. As a result of reciprocal agreements between SUNY Fredonia and these British institutions, students from England and Wales visit the Fredonia campus and area schools at selected times each year. For more information, see the section on International Education on page 187.

Henry C. Youngerman Center for Communication Disorders

The Henry C. Youngerman Center for Communication Disorders is located in Thompson Hall. The center, a major component of the Department of Speech Pathology and Audiology, contains an Audiology Clinic, a Speech-Language Clinic, laboratories and classrooms. Speech, language, and hearing evaluations and treatment are provided to students and residents of the neighboring communities. Students in speech pathology and audiology participate as observers and as clinicians under the supervision of fully licensed and certified speech pathologists and audiologists.



The Fredonia College Foundation

The Fredonia College Foundation, Inc., a not-for-profit corporation, was formed in 1964 to encourage and accept gifts and endowments in support of the priority needs of the State University of New York at Fredonia, its faculty and students.

In order to maintain the quality of academic offerings at Fredonia and to realize the college's commitment to public service for western New York and the state, the college must look to non-state sources to assist in its development. The foundation seeks support for scholarships and those programs and events that enrich the college and community that cannot be supported by state funds.

Contributions from alumni, parents, friends, faculty/staff, business and industry, the professions, foundations, and other public and private sources have strengthened many college programs. Gifts of cash, appreciated stock, real estate and insurance, gifts in kind, works of art, books, equipment, teaching materials, as well as planned gifts such as bequests and gift annuities, have enabled the college to move forward, even in times of budgetary restraint.

Center for Rural Regional Development and Governance

The Center for Rural Regional Development and Governance promotes the college's service to the region through economic development and government efficiency projects.

The mission of the center is to foster and enhance a spirit of regional cooperation and collaboration that will enhance the quality of life of all residents in the region.

The center sponsors analytical research reports to assist government decision-makers in moving toward more cost-effective and efficient service delivery in the region. Center Fellows, SUNY Fredonia faculty, and student researchers provide the expertise for these research projects. In addition, the center works in partnership with local governments, labor unions, and the private sector to provide process re-engineering and performance management skills to governments in the region. The center is also a repository for regional statistical information and regional governance best practices. Finally, the center is involved in the development of a regional growth strategy through technology transfer from the college to the private sector.

For more information about the center, interested persons should call (716) 363-0893.

ACADEMIC POLICIES

Academic Policy and Procedures in Regard to Students With Disabilities

SUNY Fredonia is in compliance with federal laws that require colleges to make reasonable accommodations for otherwise qualified students with disabilities admitted, including students with learning disabilities. It is college policy that such students fulfill the same degree and program requirements as all other students, but that they be given all reasonable help in doing so. Such help may include, but is not limited to, scheduled tutoring, special counseling, extended time for examinations, permission to tape lectures, readers or scribes for tests, and other assistance.

It is the responsibility of students to identify themselves as having a disability upon entrance to the college, by notifying the Coordinator of Disability Support Services for Students. The student and coordinator will meet and discuss the student's needs, on the basis of the clinical diagnosis that has established the existence of the disability, and will decide on the kinds of assistance the student need to gain equal access. The coordinator will also be responsible for facilitating tutorial appointments, if necessary, and appointments with the Counseling Center, if necessary. It will be the student's responsibility to see the coordinator on whatever regular basis they may jointly determine.

Students requiring accommodations should contact the Disability Support Services office at the start of each semester. Since student needs might change each semester, the Disability Support Services office must be notified of student's schedules and academic needs.

With the student's written permission, the coordinator will inform the relevant professor(s) of the student's accommodation needs on either a semester or a need-to-know basis. This will confirm the diagnosis and indicate the general needs of the student. It is incumbent upon the student to identify him/herself to the professor and discuss the specific modifications that are requested. If mutually agreeable adjustments cannot be made, the Coordinator of Disability Support Services for Students will act as mediator. It is strongly recommended that students wishing their professors to be informed do so at the beginning of the semester, rather than immediately prior to the dates that exams or other assignments are due.

SUNY Fredonia is prepared to respond to the needs of students with disabilities. For specific information about services and facilities for students with disabilities, please contact: Carolyn L. Boone, coordinator of Disability Support Services for Students, Reed Library Fourth Floor, (716) 673-3270 (v), (716) 673-4763 (tty).

Declaration of a Major Program

In order to complete the college requirements for a baccalaureate degree, every student must complete an approved departmental or interdepartmental major program by satisfactory performance in the courses specified by the program. Students may declare a major before earning 30 semester hours of credit, except in some professional programs, and must make the declaration of program prior to earning 60 semester hours of credit. Information on the

declaration of major can be obtained at the Academic Advising Center, 614 Maytum Hall.

Certain major programs have a minimum quality point average requirement for admission. A minimum 2.80 cumulative quality point average is required for admission to the Cooperative Engineering program. Students seeking admission to Childhood Education should contact the School of Education for specific requirements.

The declaration of major program, as well as changes in the major, should be made well in advance of course selection. The appropriate form is available in the Office of the Registrar and in department offices. The chairperson responsible for departmental programs or the coordinator responsible for interdepartmental programs will assign students an advisor and will certify at the appropriate time that all program requirements have been completed.

Declaration of a Dual Major

Students who are interested in completing more than one major program must obtain the appropriate form from the Office of the Registrar and secure written approval from the department chairperson or interdisciplinary coordinator of the intended second major.

Additional majors must be declared at least one semester prior to the date of graduation.

Declaration of a Minor

Students who are interested in declaring a minor must obtain the appropriate form from the Registrar's office, then contact the office of the department in which the minor is requested. Students who are interested in declaring more than one minor program are to follow the procedure outlined above for each one. Minors must be declared at least one semester prior to the date of graduation.

75-hour Audit

During the semester in which a student completes 75 cumulative semester hours, the Academic Advising Center will mail students preliminary degree audit materials that will help determine progress toward completing degree requirements. It is the student's responsibility to meet with his/her academic advisor to identify any degree deficiencies.

Early Registration

Early Registration is held during the latter part of the regular spring and fall semesters preceding the semester for which enrollment is sought. The exact dates of early registration will be announced by the Registrar through the mail and in campus publications.

Students wishing to register must obtain the necessary card from their advisors, who must approve the courses selected. Students will then register according to published guidelines.

Registration

In addition to participating in the Early Registration period, all students must confirm registration according to the directions issued by the offices of the Registrar and Student Accounts.

In compliance with the regulations of the Board of Trustees of the State University, students who have not satisfied their financial obligations to the college will not be permitted to register.

Registration must be completed by the end of the first week of classes. A service charge of \$30 is imposed for registrations taking place after the third day of classes.

Student Schedule Changes

Changes in student class schedules must be filed in the Office of the Registrar within the period prescribed by that office.

Students may drop courses through the first week of the semester. Those courses dropped will be removed from the student's permanent record. After the drop deadline, students must withdraw, except for first semester freshmen, who may drop up to Monday following Early Registration advising for the following semester.

A fee of \$15 will be assessed for each course added after the second full week of classes. This includes transactions involving a switch from one section to another.

Beginning with the second week and ending with the withdrawal date published by the Registrar each semester (generally, the seventh week), a student may withdraw from a course with advisor or department chairperson approval. A grade of "WC" is assigned. The withdrawal grade will be recorded on the student's permanent record but will not be counted in the student's quality point average.

During the second full week of the semester, an instructor may petition the Registrar to have a student dropped from a course. This may be done because the student has not been attending classes, and there are other students wishing to add the course. When an instructor initiates such action, the Registrar will make an effort to contact the affected student and, if the student wishes to remain in the course, the student will be allowed to do so, but will be urged to contact the instructor immediately.

A fee of \$15 will be assessed for each course drop or withdrawal that takes place after the drop deadline published by the Registrar's office.

Students will not be permitted to withdraw from courses after the withdrawal deadline published by the Registrar.

Exact dates for the add, drop and withdrawal periods are given in the college calendar and in the appropriate Course Offerings Bulletin and apply to all full-semester courses.

Significance of Course Numbers

Courses numbered from 100 to 499 are open to undergraduates. In general, courses numbered 100-199 are taken in the freshman year, courses 200-299 in the sophomore year, courses 300-399 in the junior year, and courses 400-499 in the senior year. There are, however, some variations in this placement according *to* curriculum and other factors.

Courses numbered from 500 to 599 are graduate courses open to qualified seniors for undergraduate credit by permission of the appropriate chairperson and the Graduate Dean.

Permission to Take Graduate Courses While an Undergraduate

Undergraduates who have completed 90 credits and whose grade point average is 3.0 or better may be allowed to enroll in suitable graduate courses numbered 500-599. Permission is not automatic. however: in each instance. students, must request approval of the department offering the course and of the Graduate Dean. The forms for this purpose may be found in the Registrar's office. Students may use such graduate courses either to meet undergraduate degree requirements or to meet degree requirements in a SUNY Fredonia graduate program they enter at a later time. In the latter case, a student will be charged the difference between undergraduate and graduate tuition when the credit is applied to the graduate transcript. No course may be used for both purposes by the same person. In no case will an undergraduate be allowed to enroll in a course numbered 600 or above.

Unit of Academic Credit

The semester hour is the unit of academic credit and represents one hour of lecture or recitation or a minimum of three hours of laboratory work each week for one semester.

Course Load

For most undergraduate programs, the normal class load is 15 to 16 semester hours. A student who wishes to carry a class load of more than 78 semester hours must secure the approval of the chairperson of his/her major department; more than 21 semester hours requires a Dean's approval. The minimum class load to be considered a full-time student is 12 semester hours.

Course Prerequisites

Many courses offered by the college are open to any interested student, space permitting. However, some courses have prerequisites - other courses a student must have had before taking the course in question, in order to understand it. For other courses there are recommendations regarding courses or experiences that might be beneficial, but not necessary, to have. A few courses have corequisites, which must either be taken before or together with the course in question. Information about pre- and corequisites, and recommendations, is given in the course descriptions in this catalog. Students are responsible for having fulfilled any prerequisites before enrolling for a course. Instructors may exclude students who have not done so.

Course Auditing

Course auditors will not be enrolled or listed on the course's roster. Audited courses offer no credit, impose no requirements, and require no fees. No person may be an auditor in any foreign study program or course. Interested persons should contact the instructor to secure permission to audit a course.

Class Attendance

At Fredonia students will experience a variety of educational styles and opportunities. Attendance is expected in all classes. Some courses will require attendance. Some courses will base a part of the grade on attendance and participation. Other courses will have no formal requirements concerning attendance. Instructors will indicate as a part of the course syllabus what the attendance policy will be.

It is the student's responsibility, if absent, to find out what material was covered, what assignments were given, and what announcements were made in class during the period of absence.

Because the college is concerned about the welfare of its students and wishes to provide assistance in case of absence for valid reasons, students are encouraged to notify the Office of Student Affairs in the event of an unusual series of absences due to health or personal reasons. The office will then notify instructors.

Each instructor is responsible for establishing a policy concerning cases in which regularly scheduled graded work is missed and for determining whether the reason for having missed such work is valid. The instructor may make that determination based on discussion with the student or may request that the student obtain a note from the Office of Student Affairs attesting to the reason for missing the work. If the instructor determines that a student has a valid reason for missing the work, the instructor may choose to give the student an opportunity to make it up or may, in exceptional cases, base the grade for the course on other work. In the event of a disagreement over the validity of the absence, the student may appeal to the instructor's chairperson. When a student is directly participating in a college-sponsored program that takes him/her away from classes, the department sponsoring the program will provide the student with documentation indicating the activity in which the student is involved and the date(s) and time(s) of that involvement. Such participation will be considered a valid reason for missing the work. Thus, instructors may offer the student an opportunity to make up the work or may, in exceptional cases, base the grade for the course on other work. In the event of a disagreement over the validity of the absence, the student may appeal to the instructor's chairperson or supervisor. If a student anticipates having to miss regularly scheduled graded work, the student should contact the instructor ahead of time. The instructor may expect the student to complete the work before the scheduled time when that is feasible. If a student misses the final examination for a course because of illness or some other cogent reason, and a make-up cannot be scheduled in time, the student will receive a grade of incomplete.

If a student must be absent due to religious beliefs, he/she has the right to make up examinations, etc. For full details, see page 240.

Final Examinations

Final Exam Schedule - A tentative schedule of final examinations is published in the *Course Offerings Bulletin*. Requests from instructors for deviations from this schedule (group examinations, room changes, or time changes) must be approved by the Registrar. The Registrar's office will publish an updated schedule at least three weeks prior to finals week. Once this schedule has appeared, no changes can be made.

Final examination week is part of the regular semester and should be interpreted in that context. Students who are asked to take final examinations (variously interpreted as terminal, non-comprehensive, etc.) prior to regular examination week are put at a decided disadvantage. Faculty members who do not give final examinations during the regular period scheduled for such examinations are expected to use that period for review or to utilize the time in some formal way in a classroom setting.

All students have the right to take their final examination at the time scheduled by the Registrar's office.

Three-Finals-In-One-Day Conflict - It is college policy that students not be required to take three final examinations in one day. However, the published final examination schedule may contain some three-finals-in-one-day conflicts. In this situation, a student has the right to take one of the examinations on a different day.

1. If the conflict arises due to an individual professor rescheduling his/her final examination from the time initially scheduled in the semester's *Course Offerings Bulletin*, it is the responsibility of that professor to arrange for an equivalent examination for the student at a suitable time during examination week. If a suitable time is not agreed to, the student may appeal to the chairperson of the department in which the course is taught.

2. If the conflict arises due to the scheduling of a group examination for several sections of the same course, the department scheduling the group examination must make equivalent examinations available to students for whom the scheduled group examination creates a three-finals-in-one-day conflict. When a student finds that a group examination creates such a conflict, he/she shall meet with the chairperson of the department scheduling the group examination who will arrange for the equivalent examination to be given to the student at a suitable time during examination week. If a suitable time is not agreed to, the student may appeal to the dean responsible for the area in which the course is taught.

3. If a conflict arises from neither of the above reasons and if a student is taking one of the three courses in his/her major field, it is the responsibility of that instructor to arrange for an equivalent examination to be given to the student at a suitable time during examination week. If a suitable time is not agreed to, the student may appeal to the department chairperson.

Students should resolve any three-finals-in-one-day conflicts before the beginning of examination week.

Assessment Examinations or Questionnaires

SUNY Fredonia regularly assesses its academic programs as part of its constant effort to improve them. Program assessment often involves testing students to measure their accomplishments in relation to program goals, or questioning them about their experiences and reactions. Usually, the results of the tests and questionnaires do not become part of the student's record, but rather help the college measure the success of its teaching and course requirements. In other words, student views and outcomes provide information that is essential if the college is to help students learn more effectively. Accordingly, all students are expected to take assessment examinations or answer assessment questionnaires if they are chosen to do so.

ACADEMIC POLICIES 223

Pass-Fail Option

The Pass-Fail Option permits a student, with the advisor's approval, to take certain courses beyond the program major requirements without competitive grade and quality point risk.

The following courses may NOT be taken Pass-Fail:

- · Courses at the 100-level
- · Courses that are part of the professional semester
- · Courses required for a major, a minor or the College Core Curriculum

Departments may designate other courses as not applicable to the pass-fail option; such courses are identified in the Course Offerings Bulletin.

Within the limitations given, students may enroll for courses as free electives on the pass-fail basis:

1. Completion of a minimum of 39 semester hours toward the bachelor's degree is required before enrollment in pass-fail courses.

2. Quality points will not be used for pass-fail courses when the student receives a passing grade. However, a failing grade will carry the usual penalty for failure in a course.

3. No more than 16 semester hours may be taken on a pass-fail basis; no more than two such courses may be taken in any one semester. All courses taken as pass-fail are counted towards the 16 hour maximum whether the student receives a P or an F.

4. In the event a student transfers to a department in which he or she has taken a pass-fail course, the new major department may set forth additional requirements in order to establish a relative grade for the course.

5. Pass-fail applications are available in the Office of the Registrar. A student who decides to enroll on a pass-fail basis is required to obtain his or her advisor's signature on the application within the three-week period following the beginning of the semester. He or she may not thereafter change status in the course(s).

Course Repeat Option

A student may apply to repeat a course under this option, and have the first grade excluded from their cumulative quality point average. This option may be exercised only once for a given course. A course originally taken for a grade cannot be retaken on a pass-fail basis.

A student who wishes to take a course at another college and have the credit substitute for a course already taken at SUNY Fredonia must secure prior approval from the chairperson of his or her major program (or department of advisement) and have the chairperson certify that the course to be taken is the equivalent of the course the student wishes to repeat. For this option, transfer credit is accepted only if the student earns a "C or better for the course being repeated and transferred. In that case, the credit (not the grade) will be noted on the transcript, and the last SUNY Fredonia grade for the equivalent course will be changed to an "R."

The Course Repeat Option may not be exercised by students who have been required to withdraw, unless the student is subsequently readmitted and enrolled in courses leading to a degree program at SUNY Fredonia.

Course repeat forms are available in the Office of the Registrar and should be filed after the mid-point of the semester and prior to the final three weeks of the semester.

Course Challenge Option

Students may enter college already possessing the skills or knowledge taught in a particular college course. If such a course is required or is a prerequisite for other courses, and if the students can prove to the satisfaction of the department offering the course that they indeed possess the skills or knowledge in guestion, the requirement will be waived or the students will be placed in the course for which they qualify, without receiving credit for the prerequisite or required course.

In unusual cases, academic departments may be willing to grant college credit for a given course to students who can demonstrate prior knowledge of the course materials or skills. The course in question will not be one in which the classroom process itself is an important focus, as it is in courses dependent on small group discussion or problem-solving, computer work, laboratory experiments, group projects, and the like. To "challenge" a suitable course by demonstrating that one can pass the course without taking it, a student must first apply to the chairperson of the department offering the course. The application should include a detailed description of the manner in which the student has already met the goals and objectives of the course. If the chairperson deems the course available for challenge and if he or she believes the student's application to have merit, the department will determine the manner in which the student is to demonstrate his or her knowledge and/or proficiency. If, in the department's opinion, the student's performance is adequate, the chairperson will recommend to the Registrar that the student be awarded credit for the course. No grade will be given, and the student's quality point average will not be affected.

Credit by Examination

The college participates in three examination programs: the College Proficiency Examination Program of the New York State Education Department, Albany, NY; the Regents College Examination Program; and the College Level Examination Program of the College Entrance Examination Board, Northeastern Regional Office, 475 Riverside Drive, New York, NY. Enrolled students must obtain prior approval before scheduling an examination. Students should contact the testing agency directly for more information.

Transfer Credit

Enrolled students must secure prior approval from the chairperson of their major program (or department of advisement), from the chair of their minor, if applicable, and from the Registrar, before credit taken at another college or university will be transferred to the student's record at Fredonia. Students applying for such approval should provide the chairperson and Registrar a copy of the course description from the other college catalog. Transfer Credit Approval forms are available in the Office of the Registrar.

Students who have been required to withdraw from the college may not complete degree requirements by taking courses at another college, unless they are subsequently readmitted and enrolled in courses leading to a degree program at SUNY Fredonia.

Credit for non-collegiate sponsored instruction will be awarded upon the recommendation of the appropriate Dean, following consultation with department chairpersons as appropriate. Where applicable, the guidelines found in *College Credit Recommendations* (published by the Board of Regents/State Education Department) should be followed.

Credit will be subject to these limitations:

1. It is to be considered transfer credit.

2. It is elective credit.

3. A maximum of 12 hours may be counted toward graduation.

4. Consistent with college policy, physical education credit should be limited to 4 hours.

Student Classification

Students are given class designation according to the number of credit hours successfully completed, as follows:

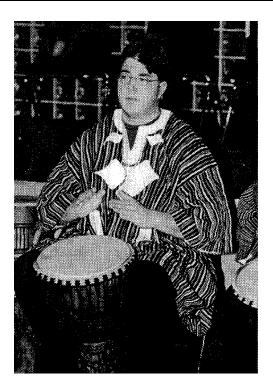
Freshman	Less than 24 hours
Sophomore	24-56 hours
Junior	57-88 hours
Senior	89+ hours

Grading System

Each student's progress is evaluated and reported four times a year - at mid-semesters (October and March), and at the end of semesters (December and May). The symbols used to record achievement on the permanent record card of the student at the end of each semester are as follows:

- A Superior
- A-
- B+
- B Very Good
- B-
- C+
- C Fair
- C-
- D+
- D Passing
- D-

- E Failing
- F Failing while electing Pass-Fail Option
- L Incomplete, given when a student, because of illness or other cogent reasons, is unable to complete the requirements of the course. These requirements must be satisfied before the end of the next regular semester or an earlier date set by the instructor; otherwise the I becomes an E on the permanent record. A student wishing to be considered for an 1 grade in a course must contact the instructor before the end of the semester. If the instructor determines that an I grade is appropriate, then the instructor will consult with the student and determine the deadline for completing the work for the course. Once the work for the course has been completed, and received by the instructor, the instructor should submit the student's revised grade for the course to the Registrar's office within two weeks.
- P Satisfactory completion of courses under the Pass-Fail Option. "P" does not count as part of the cumulative quality point average or total; it does, however, count toward completion of requirements.
- R Indicates course has been repeated.
- S Satisfactory completion of requirements.
- U Unsatisfactory performance or failure. The letters S and U are used for student teaching and certain other courses, including some independent study and skill courses. The S does not count as part of the cumulative quality point average or total; the U, however, reflects hours carried with zero quality points. In contrast to Pass/Fail, Satisfactory/Unsatisfactory grades are given as departmental options for certain courses, and require that the instructor prepare an appropriate supplemental evaluation of each student's performance to be filed with the department.
- W Indicates withdrawal from college.
- WC Withdrawal from a course.
- X Indicates continuing enrollment in a course that continues past the end of the semester. An X grade that has not been converted to a credit-bearing grade by the end of the second regular semester after the semester for which the X was given will change to an E grade.
- Y Indicates a passing grade in a course taken in a semester accepted for "academic bankruptcy."
- Z Indicates a failing grade in a course taken in a semester accepted for "academic bankruptcy."



Student Appeals of Grades

A student who feels that a final grade reported to him/her is incorrect has the right of appeal by the following procedure:

1. He or she first discusses the grade with the instructor.

2. If, after this discussion, the student is still unsatisfied, the student may take his or her case to the chairperson of the department. This appeal should be in writing, outlining the reasons why the student feels the initial grade was incorrect and supplying any relevant documentation (e.g. graded material, syllabi, etc.) in support of the grade change.

3. If the chairperson decides that the student's case merits further investigation, and after the chairperson has discussed the appeal with the instructor involved, the chairperson appoints an *ad hoc* committee composed of two members of the faculty in the department, other than the faculty member involved, and one student who is a major in the department.

4. If the chairperson decides that the student's case does not merit further investigation, the student may appeal this decision to the Dean, supplying the same supporting materials as presented to the chairperson. If, after discussion with the chairperson, the Dean decides that the student has a case that merits investigation, the Dean may appoint an *ad hoc* committee of the same composition to that described above to investigate the student's case.

5. The committee reviews the case, interviews the student and the instructor separately, and reaches a judgment by majority vote. The judgment is communicated to the chairperson or the Dean who, in turn, reports it to the affected parties.

6. If the committee recommends a change in grade, the instructor may initiate a change, or the committee's recommendation is forwarded to the appropriate Dean or

Vice President for Academic Affairs for their consideration. In such cases, the Vice President for Academic Affairs may modify the grade if the committee so recommends.

7. At any time during this process prior to when a final decision is made, the student may withdraw hiis/her appeal, or the instructor may initiate a grade change consistent with the student's appeal. Either of these actions ends the appeal process.

A student or former student must initiate the appeal process within one semester after final grades are posted.

Plagiarism

To plagiarize is "to steal and pass off as one's own the ideas or words of another" (Webster's *Seventh New Collegiate Dictionary*). Examples of plagiarism include presenting the ideas of another in one's own words without crediting the source, copying sentences, paragraphs, or pages from a source without explicit reference to the pages from which the words were taken, and, of course, presenting another's entire work as one's own. If a student is not certain whether a particular practice may be considered plagiaristic, it is his/her responsibility to consult the instructor for whom he/she is writing the paper, exercise, or examination. SUNY Fredonia strongly condemns plagiarism and takes severe action against those who plagiarize. For procedures and a copy of the college's policy on Academic Integrity, see page 237.

Quality Point Average

The quality point system is used to indicate a student's overall academic average.

Each course grade of:

А	carries	4.0	quality	points	per	semester	hour
A-	carries	3.7	quality	points	per	semester	hour
B+	carries	3.3	quality	points	per	semester	hour
В	carries	3.0	quality	points	per	semester	hour
B-	carries	2.7	quality	points	per	semester	hour
C+	carries	2.3	quality	points	per	semester	hour
С	carries	2.0	quality	points	per	semester	hour
C-	carries	1.7	quality	points	per	semester	hour
D+	carries	1.3	quality	points	per	semester	hour
D	carries	1.0	quality	points	per	semester	hour
D-	carries	0.7	quality	points	per	semester	hour

Course grades of E, F, P, R, S, X, and U carry no qualify points.

The quality point average for a semester is determined by dividing the total quality points earned by the number of hours carried that semester; the cumulative quality point average, by dividing the total quality points accumulated to this point in the student's college career by the total number of hours carried, including courses failed.

Hours earned for courses with P, X, and S grades are not included in figuring the semester or cumulative average; hours failed (grade of E, F, and U) are.

Consult each individual department on its policy for calculating quality point average in the major or minor.

Dean's List

About one month after the end of each semester, the college announces the names of students who are recorded on the Dean's List. The list includes all students who have earned a quality point average of 3.30 or higher for that semester with a course load of at least 12 credit hours. (Courses with P or S grades are not included in the 12 hours.)

Academic Standing and Probation

The term "in good academic standing" means that a student is eligible or has been allowed to register for and undertake academic course work for the term in question. The mechanism of academic probation, including any accompanying constraints upon a student's activities, is intended merely as an educational device to encourage greater effort on the part of students who appear to be having difficulty in meeting certain academic standards. Placement on academic probation may precede denial of the right to register for academic course work if certain conditions are not met, but a student on academic probation is considered to be in good academic standing. Any question concerning whether or not an individual student is in good academic standing will be determined by the campus committee on academic standards.

The Academic Standings Committee has adopted the following regulations governing academic standing:

(1.) A student will be placed on probation if the cumulative quality point average falls below a 2.00.

A student on academic probation is required to meet with a probation advisor (generally the chairperson of the student's major department) a minimum of three times during the probationary semester.

(2.) Probationary status is determined in accordance with the above standards and is not dependent upon official notification.

(3.) "Good academic standing" is defined as maintaining a cumulative quality point average at or above the appropriate level in (1) above or being on probationary status. Students should also refer to the financial aid section (page 21 3) on academic standing and its relationship to financial aid eligibility.

(4.) A student normally will be required to withdraw if at the end of a semester of probation the cumulative quality point average is still below the level stated above.

(5.) Students whose record of achievement becomes academically irreparable may be dismissed without a semester of probation.

At the close of each semester the Academic Standings Committee reviews the record of each student whose cumulative quality point average places him/her within the range of Academic Dismissal or Probation. The Academic Standings Committee is comprised of the Vice President for Academic Affairs (or designee), the Academic Deans, the Vice President for Student Affairs (or designee), the Director of Academic Advising, and the Registrar. The chairpersons and directors of those departments and special programs whose students are being considered assist in this review. A student may appeal the decision of the Academic Standings Committee to the Academic Dean.

Leave of Absence Policy and Continuing Enrollment

A leave of absence may be obtained for the following reasons: medical, military service, or jury duty. A student must have a minimum 2.0 cumulate grade point average and at least a 2.0 average in his/her major.

A leave of absence form can be obtained from the Office of Student Affairs, sixth floor, Maytum Hall. Approval of a leave must be made by the appropriate department chairperson and the Office of Student Affairs.

Ordinarily, a leave is for one semester or one academic year. Students wishing to return after a leave of absence must contact the Registrar's office at least one month before the beginning of the semester in which they wish to enroll. Students wishing to course select should consult the Registrar's office for registration dates.

A student who voluntarily terminates enrollment from the college may return to the college through reinstatement or readmission. Reinstatement requires that a student have at least a 2.0 cumulative grade point average at the time he/she left school. Readmission is for students who have below a 2.0. Applications for reinstatement and readmission can be obtained from the Office of Admissions.

Withdrawal and Honorable Dismissal

A student who finds it necessary to leave the college before the end of a semester must withdraw officially through the Office of Student Affairs. Students may withdraw for any reason up to the period of three weeks prior to the end of the semester. STUDENTS WILL BE PERMITTED TO WITHDRAW DURING THE FINAL THREE WEEKS OF THE SEMESTER ONLY DUE TO ILLNESS OR OTHER COGENT REASONS AS DETERMINED BY THE OFFICE OF STUDENT AFFAIRS. Failure to follow the required procedure may prejudice the right to an honorable dismissal and to any refunds. Those enrolled in any federal program of veterans benefits must also notify the Veterans' Affairs Office (McGinnies Hall) of their withdrawal.

A student withdrawing during a term may be eligible for certain refunds as described on page 206.

Academic Bankruptcy

Prior to graduation, an undergraduate student may petition the Office of the Vice President for Academic Affairs for one semester of "academic bankruptcy." The student must have a minimum quality point average of 2.00 at the time the petition is filed and must have accumulated at least one semester after the semester for which academic bankruptcy is sought. If the petition to bankrupt a semester is granted, the student's grades for the chosen semester will be converted to "Y" for grades of D- or better, and to "Z for E grades. This policy may be applied only to one semester of work completed at the college. Academic bankruptcy is intended to assist the student who normally maintains adequate academic standards and whose grades have suffered for one semester due to unusual or unfortunate circumstances. Although the Y grade does not carry any quality points, the credit hours for courses receiving Y grades will count toward the total needed for graduation and may apply toward the totals needed for the requirements for the major, minor or concentration. The student is advised to consult with the appropriate department before requesting this option.

Readmission and Reinstatement

Students who have withdrawn from the college and wish to return may obtain an application for Readmission/Reinstatement from the Office of Admissions. Applications are reviewed by the appropriate academic dean, department chairperson, and the Vice President for Student Affairs or designee. Students who have withdrawn in good standing are generally eligible for Reinstatement if space is available in the requested major. Individuals who were required to withdraw for academic reasons are not eligible for consideration until at least one academic semester has elapsed, and must request that the appropriate chair develop a contract.

Students with a cumulative quality point average of less than 2.00 who have been readmitted to the college may request to be reinstated with their original cumulative academic record or with a readmission petition.

Under the readmission petition, a new quality point average is established from the time of readmission to graduation. The total academic record achieved from the time of initial enrollment at SUNY Fredonia will be entered on the transcript, but no credit will be awarded for "D grades earned prior to readmission. The cumulative quality point average will reflect only the average since readmission, and a minimum of 45 additional credit hours of graded work must be completed at SUNY Fredonia prior to graduation and after readmission.

COLLEGE CALENDAR 2003-2005

FALL	2003
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Aug. 25 (M) Aug. 26 (Tues.) Sept. 1 (M) Classes in Session Oct. 6-7 (M-Tues.) Nov. 24-28 (M-F) Dec. 12 (F) Dec. 15-19 (M-F)

SPRING 2004

Jan. 21 (W) Jan. 22 (Thurs.) March 19-26 (F-F) April 12 (M) May 7 (F) May 10-1 4 (M-F) May 15 (Sat.)

Registration First Day of Classes Labor Day Fall Break Thanksgiving Break Last Day of Classes Exams

Registration First Day of Classes Spring Break - No Classes Travel Day - No Classes Last Day of Classes Exams Commencement

FALL 2004

Aug. 23 (M) Aug. 24 (Tues.) Sept. 6 (M) No Classes Sept. 23-24 (Thurs.-F) Nov. 22-26 (M-F) Dec. 10 **(F)** Dec. 13-17 (M-F)

SPRING 2005

Jan. 19 (W) Jan. 20 (Thurs.) March 21 -29 (M-Tues.) N/A May 6 (F) May 9-13 (M-F) May 14 (Sat.)

Registered Degree Programs

Listed on the following chart are SUNY Fredonia's registered degree programs, consistent with the inventory **of** registered degree and certificate programs maintained by the New York State Education Department. The chart contains the official approved program title, degree and HEGIS code number. Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

Programs	HEGIS Code	Degree	Programs	HEGIS Code	Degree
Accounting	0502	B.S.	Mathematics	1701	B.S.
Acting	1007	B.F.A.	Mathematics-Physics	1799	B.S.
Biochemistry	0414	B.S.	Media Arts:		
Biology	0401	B.S.		1099	B.A.
Business Administration	0506	B.S.		1099	B.F.A.
Business Admin.:	0506	B.S.		1099	B.S.
Mgmt. Info. Systems			Medical Technology	1223	B.S.
Business Admin.: Finance	0506	B.S.	Molecular Genetics	0499	B.S.
Business Admin.: Management	0506	B.S.	Music-Applied	1004	B.A.
Business Admin.: Marketing	0506	B.S.	Music:		Mus.B.
Cooperative M.B.A.	0506		Composition	1004	
Chemistry	1905	B.S.	Performance	1004	
Childhood Education 1-6	0802	B.S.Ed.	Music Education K-12	0832	Mus.B
Communication	0601	B.S.	Music History and Literature	1006	B.A.
Communication:	0603	B.S.	Music Theory	1004.10	B.A.
Audio/Radio Production			Music Therapy	1099	B.S.
Communication: Communication Studies	0601	B.S.	Musical Theatre	1004	B.F.A.
	0000		Philosophy	1509	B.A.
Communication: Media Management	0699	B.S.	Physics	1902	B.S.
Communication:	0604	B.S.	Political Science	2207	B.A.
Public Relations	0004	в.э.	Production Design	1007	B.F.A.
Communication:	0605	B.S.	Psychology	2001	B.A.
TV/Digital Film Prod.	0005	D. 3 .	Social Work	2104	B.S.
Communication Disorders	1220	B.A.	Sociology	2208	B.A.
and Sciences	1220	D.A.	Sound Recording Tech.	1099	B.S.
Computer and Information	0701	B.S.	Spanish	1105	B.A.
Sciences	0.01	5.0.	Speech and Hearing	0815	B.S.Ed.
Cooperative Agriculture			Handicapped		
Cooperative Engineering			Speech and Language	0815	B.S.Ed.
Cooperative Special Educ.	0808		Disabilities		
Cooperative Teachers of	0808		Teacher Certification Areas:		
Excep. and Elem. Educ.			Biology 7-12	0401.01	B.S.
Criminal Justice	2105	B.A.	General Science 7-12 ext.	0804.04	
Early Childhood Education			chemistry 7-12	1905.01	B.S.
Birth-2	0823	B.S.Ed.	Earth Science 7-12	1917.01	B.S.
Earth Science	1917	B.A.	General Science 7-12 ext.	0804.04	
Economics	2204	B.A.	English		B.A.
Elementary Education N-6	0802	B.S.Ed.	N-9 ext.	0804.01	
English	1501	B.A.	7-12	1501.01	
French	1102	B.A.	French		B.A.
Geochemistry	1915	B.S.	N-9 ext.	0804.05	
Geology	1914	B.S.	7-12	1102.01	
Geophysics	1916	B.S.	Mathematics Middle Childhood 5-9	0004.00	B.S.
Health Services Admin.	1202	B.S.		0804.03	B.S.
History	2205	B.A.	N-9 ext.	0804.03	
Industrial Management	0599	B.S.	7-12 Dhysics	1701.01	D O
Interdisciplinary Studies:	4901	B.A.	Physics Social Studies	1902.01	B.S.
	4901	B.S.	N-9 ext.	0904 00	B.A.
General	4901		N-9 ext. 7-12	0804.02	
Liberal Studies (pre-major)			1-12	2201.01	

Programs Spanish	HEGIS Code	Degree B.A.
N-9 ext.	0804.07	
7-12	1 105.01	
Theatre Arts:	1007	B.A.
Acting	1007	B.F.A.
Production Design	1007	B.F.A.
Visual Arts	1002	B.A.
Visual Arts: Art History	1003	B.A.
Visual Arts: Ceramics	1009	B.A/B.F.A.
Visual Arts: Drawing	1002	B.A.B.F.A.
Visual Arts: Graphic Design	1009	B.A.B.F.A.
Visual Arts: Illustration	1009	B.A.B.F.A.
Visual Arts: Painting	1002	B.A/B.F.A.
Visual Arts: Photography	1011	B.A.B.F.A.
Visual Arts: Sculpture	1002	B.A.B.F.A.

Requirements for the Bachelor's Degree

Graduation from the college with the award of the appropriate degree (Bachelor of Arts, Bachelor of Science, Bachelor of Science in Education, Bachelor of Fine Arts, or Bachelor of Music) will be granted to students who fulfill the following requirements.

1. They must earn a minimum of 120 unduplicated credit hours.

2. They must complete all required courses in a particular major program, the general education requirements of the College Core Curriculum, and sufficient elective credits to make up the total required credit hours, with a minimum cumulative quality point average of 2.00. The student must also have a minimum cumulative quality point average of 2.00 in courses required for his/her major, minor, and concentration. Students should see department sections for any variation from this requirement.

3. Except for certain programs, students pursuing the B.A. degree must earn a minimum of 75 hours in credits from disciplines other than their major discipline. For the B.S. degree, the minimum is 66 hours. For either the B.A. or B.S., students in multi-discipline major programs may not apply more than 45 hours in any one discipline toward credits needed for graduation.

4. All students must take a minimum of 45 semester hours at SUNY Fredonia.

5. Under ordinary circumstances, students will have 10 consecutive years during which to complete the requirements for the undergraduate degrees in effect at the time they began their studies. If they wish to complete the degree after 10 years, their record of studies will be reviewed by the chairperson of the academic department in which their major falls, and by their Academic Dean, to determine how much of their earlier credit is still applicable. This rule applies not only to credit earned at SUNY Fredonia, but also to credit transferred to Fredonia from other colleges. In addition, after 10 years, students will generally be required to complete the current College Core Curriculum requirements. The CCC Director will review the student's record of studies to determine how much of his/her earlier general education credit is still applicable.

This policy notwithstanding, to the extent that certifying agencies change the requirements for a particular degree within the student's original 10-year period or later, students will be bound by the new requirements of the agency.

6. Candidates in a program leading to certification to teach in New York State must satisfactorily complete all student teaching requirements. No grade less than S gives credit in student teaching.

7. Music students must meet certain accompanying and performance standards, and secondary instrument competencies. Details on these requirements may be secured from the School of Music.

8. Students must meet all their financial obligations to the college and any or all of its supporting agencies.

9. A student who expects to graduate at a given date must make application through the Registrar's office, not later than the third full week of classes of the final semester of attendance.

Notes:

Only 4 credit hours of physical education activities courses (100-level courses) may count toward the total number of credit hours needed for graduation. Accounting majors may not use any health/physical education courses toward the 120 hours required for graduation.

A maximum of 24 credit hours of internship credit may count toward the number of credit hours needed for graduation.

Credit for a course may not be counted more than once, unless the course has been designated by the department as an exception to this rule.

Requirements for a Second Baccalaureate Degree

1. SUNY Fredonia students wishing to earn two degrees concurrently must complete a minimum of 150 semester hours and complete the requirements for the two degrees during the semester in which they have applied for graduation. The two degrees may not be of the same type as registered by the New York State Education Department. For example: a B.A. and a B.S. would be appropriate, but two B.A. degrees would not, as the latter can be accomplished in the declaration of a second major.

2. SUNY Fredonia graduates seeking an additional bachelor's degree must take a minimum of 30 semester hours at the college and must successfully complete the requirements of their additional major or program.

3. New students seeking an additional bachelor's degree must take a minimum of 45 semester hours at SUNY Fredonia and must successfully complete the requirements of their additional major or program.

4. A minimum of 15 credit hours must be successfully completed in the discipline of the second degree program. Of these 15 credit hours, no more than 3 credit hours may be taken as an independent study or internship. The department chairperson of the proposed degree program will prepare a written contract outlining the required courses, prior to admission to the program.

5. The student must have a minimum cumulative quality point average of 2.00 in all courses required for the second degree and in courses required for the second major or program. See the department sections for any variation from this requirement.

6. Students must meet all their financial obligations to the college and any or all of its supporting agencies.

7. A student who expects to graduate at a given date must make application through the Registrar's office, not later than the third full week of classes of the final semester of attendance.

8. State University of New York policy requires that a second baccalaureate degree be markedly different from the first baccalaureate degree; e.g., a student could not receive degrees in both Accounting and Business Administration. However, such a student could be readmitted to the college to pursue a second major.

Graduation With Honors

Students whose cumulative quality point average indicates high scholastic attainment will be awarded the degree as follows:

1. Summa Cum Laude - Quality Point Average 3.7 or higher.

2. *Magna Cum Laude* - Quality Point Average between 3.50 and 3.69.

3. Cum Laude - Quality Point Average between 3.30 and 3.49.

Students may graduate with honors only when they have completed at least 45 hours of graded work at SUNY Fredonia. Graded work includes all courses which carry quality points and excludes courses which are graded "satisfactory-unsatisfactory" or "pass-fail."

Only those credits earned at SUNY Fredonia will be computed in the final average.

Transcripts of Record

Upon written request from the student, the Registrar will provide an official transcript. Students are urged to request transcripts well before the date they are needed. (For information on changes to transcripts, see Student Appeals of Grades, page 225.)

Name Changes

A student whose name is changed should report the change in writing to the Registrar.

Observance of Regulations and Standards

All students are expected to observe the regulations and standards governing student life, both in and out of the classroom. Failure to do so may be considered grounds for suspension or dismissal. Each student should read with care the full statement on Student Rights and Responsibilities, pages 231-246.

Liability

The college is not responsible for loss or damage to personal property by fire, theft, or any other cause on college property or in any off-campus housing facility.

Student Retention

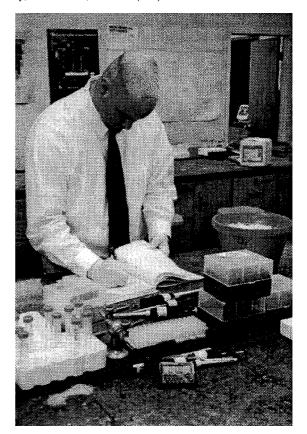
It is important to recognize that students withdraw from college for various reasons; academic, medical, personal, social and financial problems are among those reasons. Completion of degree requirements in more than four years does not necessarily mean continuous enrollment during this interval, but rather reflects the time span measured from the student's initial entering date to graduation and, where appropriate, includes interruptions in attendance. SUNY Fredonia has undertaken retention studies to determine entering freshmen cohort return and graduation rates. At the end of the first year, 80 percent of the freshmen remained enrolled for the second year. Most recent data reflect the proportion of freshmen completing their baccalaureate degree at SUNY Fredonia to be 48 percent within four years, 61 percent within five years, and 63 percent within six years from initial date of entrance.

Approximately 40 percent of transfer students entering the college at the upper division level (junior year) completed their bachelor's degree requirements on time, within two years after entering.

Detailed outcomes are available from the Office of Institutional Research and Planning, Room 203, Maytum Hall.

Program Registration

SUNY Fredonia's baccalaureate and graduate programs are registered by the New York State Education Department. For information, contact the New York State Education Department, Office of Higher Education and the Professions, Cultural Education Center, Room 5B28, Albany, NY 12230, or call (518) 474-5851.



STUDENT RIGHTS AND RESPONSIBILITIES

Regulations Governing Student Conduct and Community Standards of Behavior

Pursuant to the Resolution of the Board of Trustees of the State University of New York, dated May 11, 1967, and Section 356 of the State Education Law, and after consultation with the President, representatives of the faculty, and students, the Council of the State University of New York at Fredonia established and promulgates the following regulations covering the conduct and behavior of students.

Attendance at this college is a privilege afforded the student by the State of New York and not a legal right. The determination of a student's fitness to be admitted to the college and to continue as a student has been entrusted by the Board of Trustees of the State University to the President and his/her staff.

General Policy

Students seeking knowledge and understanding also need freedom to inquire, to exchange ideas through discussion, publication and public presentations. These opportunities are basic to education in and for a democratic society. To insure these freedoms the college requires a community free from violence, threats, and intimidation; protective of free inquiry; respectful of the rights of others; open to change; supportive of democratic and lawful procedures; and dedicated to the rational and orderly approach to the resolution of human problems. In exercising freedoms and in discharging the rights and obligations of citizenship, students must also recognize their responsibilities to other individuals, to the college, to the state and the nation, and to society in general. Orderly and dignified expression and conduct are expected.

In protection of these freedoms the college must establish certain standards of personal and group conduct. The college may apply sanctions or take other appropriate action when the conduct of individuals or groups on or off campus directly or significantly interferes with the freedom to teach and learn, the safety and health of persons in the community, the maintenance or protection of property, the provision of living accommodations and other services, and the sponsoring of non-classroom activities such as lectures, concerts, athletic events, and social functions.

Counseling, guidance, and rehabilitation are the preferred means for resolving behavior problems. Although disciplinary proceedings play a secondary role in resolving such problems, violation of the Standards of Behavior listed below may result in privilege restriction, suspension, or dismissal.

In the legitimate interest of the college in protecting property and the safety and welfare of specific individuals or the general public, the College President or his/her designee may temporarily suspend an individual pending a decision by the hearing body.

Statement of Jurisdiction

The Standards of Behavior and College Policies apply to all undergraduate students, graduate students, and student organizations of SUNY Fredonia. The Standards of Behavior primarily prohibits misconduct on Fredonia property, but may address off-campus conduct when the behavior or the presence of the individual, in the college's sole judgment, impairs, obstructs, or interferes with the mission, processes, or functions of SUNY Fredonia. Students should be aware that SUNY Fredonia reserves the right to review and take disciplinary actions based on conduct occurring off campus or between academic periods.

If a student breaks a law that also violates the College Standards of Behavior or College Policies, that student may be held accountable by both civil authorities and the college. The college may at its sole discretion, elect to pursue disciplinary action against a student at the same time as criminal proceedings, even if criminal charges involving the same incident are not complete, have been dismissed, or were reduced.

ALLEGED VIOLATION OF ANY OF THE FOLLOWING WILL RESULT IN CHARGES BEING FILED AGAINST YOU.

Specific Standards of Behavior

1.. Personal Identification and Representation

Failure to act in accordance with these standards must be treated as a major failure to accept responsibility as a student and make one subject to separation from the community. Prohibited are:

(a) Furnishing false or incomplete information to college offices, officials, or judicial boards.

(b) Failing to appear before a college official or judicial board when properly notified to appear.

(c) Making, forging, printing, reproducing, copying, or altering any record, document, writing, or identification used or maintained by the college that results in injury, defrauding, or misrepresentation.

(d) Refusing to identify one's self when requested by an authorized college official having just cause. Students are expected to carry their SUNY Cards at all times.

(e) Transferring one's own SUNY Card to another for the purpose of obtaining college service or privileges.

(f) Acting to obtain a college privilege or service to which the student is not entitled.

(g) Providing erroneous information concerning a change in status concerning financial refunds or financial independence from parents or legal guardian.

2. Interference with the Health, Safety, or Rights of Other Persons

All members of the college community share the responsibility for protecting and maintaining community health, safety, and the rights of other persons. Students are required to obey the statutes and laws of the nation and the state, as well as the ordinances and laws of the village of Fredonia, city of Dunkirk, and the towns of Pomfret and Dunkirk. Conviction of a violation of such laws, statutes, or ordinances may be grounds for suspension or dismissal. Specifically prohibited are:

(a) Failing to comply with instructions of college or town officials having just cause to issue the instructions (e.g., faculty, staff, Residence Hall Director, Resident Assistant, security, safety, or fire officials carrying out properly assigned responsibilities).

(b) Failing to comply with the final decision of a judicial board or administrative action.

(c) Misusing safety equipment including but not limited to tampering with fire equipment, fire alarms, exit lights, refusal to obey a fire alarm, initiating a false fire alarm, submitting a bomb threat, activating emergency phones, sprinkler systems, or propping doors open.

> (d) 1) Fighting and threats to, physical abuse of, or harassment which threatens to or does endanger the health, safety, or welfare of a member of the college community.

> > 2) Engages or threatens to engage in behavior which poses imminent danger of causing substantial harm to self or others.

3) Obstructing or disrupting teaching, administrative or public service function of the college.

4) Obstructing or disrupting disciplinary proceedings or authorized college activities.

(e) 1) Engaging in any action or situation which endangers the mental or physical health of a member of the college community.

2) Creating a situation that results in harassment of or excessive ridicule of a member of the college community.

3) Engaging in any form of hazing, which endangers the mental or physical health or involves the forced consumption of alcohol or drugs for the purpose of initiation or affiliation with any organization. Please refer to *College Policy on Hazing.*

(f) Participation in any form of non-consensual sexual intimacy and unwanted physical sexual conduct. Please refer to *College Policy on Sexual Assault.*

(g) Possessing firearms, explosives (including firecrackers), weapons, bb gun, paintball guns, potato guns, or articles or substances usable as weapons.

(h) Illegally using, possessing, selling, or distributing narcotics, stimulants, depressants, hallucinogens, marijuana or its derivatives. Please refer to *College Policy on Drugs and Alcohol.*

 (i) 1) Illegally using alcohol, possessing alcohol, selling or distributing alcohol; distributing alcohol to minors. Please refer to the College Policy on Drugs and Alcohol.

2) Participating in illegal activities such as gambling, games of chance, or those involving alcoholic beverages.

(j) Use of speakers or other sound amplifying equipment without clearance as to time and place from the Office of Student Affairs.

(k) Posting of posters, handbills, or notices without permission of the appropriate college official. The Office of Campus Life must approve all postings.

(I) Smoking in non-smoking areas so designated by the College President or his/her designee.

(m) Ignoring reasonable standards of appropriate behavior.

(n) Engaging in cheating, plagiarism, or collusion on any examination or on assigned work. Please refer to the *College Policy on Academic Integrity.*

(o) Refusing to accept financial obligations incurred as a student enrolled at the college. (The college is empowered to refuse to register, graduate, or release records of any student who is delinquent in his/her obligations to the college.)

(p) Viewing, possessing, or distributing child pornography.

(q) Counterfeiting or violating copyright laws.

3. Care of College and Personal Property

Maintaining and preserving college grounds, academic buildings, resident and dining facilities, and other associated structures is an obligation of all members of the college community. Similarly, maintaining and preserving personal property is also an obligation. Prohibited are:

(a) Vandalism, theft, or embezzlement of, destruction of, damage to, unauthorized possession of, or inappropriate use of property belonging to the college, a member of the college community, a campus guest, or community member.

(b) Destruction, mutilation, and defacement of or tampering with books, magazines, library materials or equipment, or computer services or equipment.

(c) Unauthorized occupancy of or trespassing on college property or facilities.

4. Demonstration or Other Groups or Individual Action

The campus must be open to a free exchange of ideas; therefore, all members of the community are expected to conduct dialogues with mutual respect and courtesy. Prohibited are:

(a) Denying to other students, officials, employees, or invited guests of the college lawful freedom of movement on the campus, lawful use of the property or facilities of the college, or the right of lawful entrance to and exit from any of the college's facilities. (b) Impeding the staff or faculty of the college in the performance of their duties, or impending any student of the college in the pursuit of his or her legitimate educational or social activities, through the use of restraint, coercion, or intimidation, or when force and violence are presented or threatened.

(c) Engaging in any intentional overt activity resulting in the obstruction to, disruption of interference with any of the legitimate missions, processes, procedures, or functions of the college.

(d) Refusing to vacate a building, street, sidewalk, driveway, or other facility of the college when directed to do so by an authorized official of the college having just cause to order such evacuation.

(e) Making unnecessary noise or causing noise to be made with objects and instruments, which disturb others.

College Policies

Listed below are policies the college has adopted to ensure the health, safety and well-being of the college community.

Policy on Hazing and Initiation or Affiliation with any Organization

The purpose of this policy is to specifically clarify those behaviors and activities which constitute violations of college regulations and New York State laws pertaining to hazing, and to provide some guidance to student organizations in designing new member programs and activities, which serve to protect the human dignity and safety of all persons which will be permitted. This policy applies to all members of a student organization including alumni members. No organization may engage in any form of hazing.

Hazing is defined as engaging in any action or creating a situation intentionally or unintentionally designed to produce mental or physical discomfort, harassment, or excessive ridicule in the course of another person's initiation into or affiliation with any organization. Such activities and situations may constitute hazing but are not limited to the following:

- (1) disfiguration to include branding or self-mutilation
- (2) paddling in any form
- (3) creation of excessive fatigue
- (4) physical and psychological shocks

(5) activities such as quests, treasure hunts, drinking games, scavenger hunts, road trips, etc. which are conducted in an illegal, demeaning, or dangerous manner

(6) public wearing of apparel which is conspicuous and not normally in good taste

(7) engaging in public stunts and buffoonery

(8) morally degrading or humiliating games and activities

(9) any activities which interfere with class attendance, class preparation or scholastic activities or activities which are disruptive to any university department or office or classroom (1 0) verbal abuse which leads to public embarrassment or humiliation

(1 1) implication that an act of hazing could be pre-initiatory

(12) any other activities that are not consistent with fraternal law, ritual or policy, or the policies and regulations of SUNY Fredonia.

SUNY Fredonia reserves the right to revoke recognition of any student organization or club that is found to have violated these rules. Appropriate review of alleged violations may include review by the Vice President of Student Affairs and the Coordinator of Judicial Affairs. Member organizations of Inter-fraternity Council and Panhellenic Council may also be reviewed by their respective Judicial Boards. Revocation of recognition may not preclude the imposition of the College Judicial Board; but when considered by the Vice President of Student Affairs to be serious in nature, could result in immediate suspension of organizational recognition until such time as the allegations have been appropriately adjudicated.

Policy on Sexual Assault

The Fredonia campus will not tolerate sexual assault in any form, including acquaintance rape. Where there is probable cause to believe that the campus' regulations prohibiting sexual assault have been violated, the campus will pursue strong disciplinary action through its own channels. This discipline includes the possibility of suspension or dismissal from the college.

A student charged with sexual assault can be prosecuted under New York State criminal statutes and disciplined under the campus' code of student conduct. Even if the criminal justice authorities choose not to prosecute, the campus can pursue disciplinary action. A student may be charged under Section 2 (f) of the *Standards of Behavior*.

In addressing cases of sexual assault SUNY Fredonia works to ensure fairness and to provide support for all persons involved, especially the victims. Students who have questions about the procedures and protections provided in these cases are encouraged to contact the Office of Student Affairs and/or University Police. Students are also encouraged to take advantage of the Counseling Center and Health Center for further assistance.

Alcohol and Drug Policy

The inappropriate use of alcohol and drugs can interfere with student development and seriously threaten the health and safety of the college community. Members of the college community will be held accountable for their behavior while under the influence of alcohol and/or drugs.

These alcohol and drug related sanctioning guidelines focus on student development and early intervention for minor violations and first offenses and on a more disciplinary approach for major violations and repeat or multiple offenses.

Drugs

The following are prohibited:

1. The use, possession, sale, or distribution of illegal drugs, controlled substances, and drug paraphernalia.

Alcohol

The following are prohibited:

1. Using or possessing alcohol (persons under 21 years of age).

2. Distributing or selling alcohol to minors, on or off campus.

3. Misstating or misrepresenting age through the presentation of false documents.

4. Distributing or selling alcohol without a license

Students and guests who are of legal purchase age or older may possess alcoholic beverages in moderation in their private rooms, subject to all regulations that may be established by the Office of Residence Life.

Types of Sanctions

If a student is found responsible for alcohol related misconduct on or off campus, the following sanctions may be imposed singly or in combination. The sanction(s) imposed should be commensurate with the offending conduct, and may take into account the student's educational record and any previous conduct record.

Verbal Warning - A verbal reprimand which expresses university dissatisfaction with the student's conduct and which clarifies expected behavior in the future. Such a warning is noted in the student's conduct file.

Disciplinary Warning - A written reprimand which expresses university dissatisfaction with the student's conduct and which clarifies expected behavior in the future.

Disciplinary Probation - Written notification that any further violations within the probationary period shall result in more severe disciplinary action. The probationary period will be for a specific period of time and/or until the completion of any specified requirements or conditions that are part of the probation.

Disciplinary Suspension in Abeyance - The student remains enrolled. However, any violation of conduct regulations during the period of suspension in abeyance will, after determination of guilt, result in a minimum sanction of automatic suspension.

Disciplinary Suspension - A decision that removes the student from the university for a specific period of time, usually no more than two years. The suspension might be immediate or begin after the end of the semester. In either case, the student is eligible for consideration for readmission at the end of the specified period.

Disciplinary Expulsion - A decision that removes the student permanently from the university. Normally, the penalty shall also include the student being barred from the premises of the university.

Other Sanctions - Other sanction may include a variety of restrictions and educational related activities. These include but are not limited to:

- prohibition from engaging in any extra-curricular activity
- prohibition running or holding an office in any student group or organization
- prohibition from participation in sports related activities

- restricting students from serving on any university committees
- limiting student employment
- removal from on-campus housing
- restriction from specific buildings or residence halls
- restriction from campus
- · placing holds on records
- · service charges or restitution
- required counseling
- · required community service
- required class attendance
- · required Internet research
- writing a paper

Complaints

A complaint of misconduct is usually written by a complainant and includes specific allegations or charges of misconduct. The complaint will be discussed with the complainant and the accused during separate interviews. If there appears to be grounds for disciplinary action, it will be addressed through the appropriate procedures. If the complaint is found to be unwarranted or if there is not enough evidence to proceed, the complainant will be so advised. The complaint, relevant evidence and related charges are shared with the accused so that the accused can prepare a defense in the event of a conduct hearing. Faculty, staff, students and community members are encouraged to report incidents of misconduct. Police reports and residence hall incident reports are also used to report violations of university conduct standards.

Zero Tolerance Policy

As part of a Zero Tolerance Policy, Fredonia will take disciplinary action for every alcohol and drug related violation on campus. Fredonia will also take disciplinary action for some violations reported off campus, provided these violations have a connection to the campus. This would include violations that endanger students or may cause harm to the campus community.

Parental Notification Policy

In October 1998, Congress passed the Higher Education Amendment which permits post-secondary institutions to disclose to parents or legal guardians of students under 21, without their consent, information regarding the student's violation of any federal, state, or local law, or any rule or policy of the institution governing the use or possession of alcohol or a controlled substance. The Office of Student Affairs normally informs parents of any alcohol or drug violation involving students under 21.

Typical Sanction(s)

Listed below are possible sanction(s) for those who violate the drug and alcohol policy. The sanctions listed may be used alone, or in combination, and additional sanctions not listed here may also be applied.

First Offense: The first alcohol or drug related offense would typically result in a Disciplinary Warning and a requirement to complete Alcohol.Edu, a computer based alcohol and drug education program. The student would be charged a (\$15) fee to cover the cost of this program.

Second Offense: The second alcohol or drug related violation would typically result in Disciplinary Probation and a referral to the Fredonia Cares program, an in-depth alcohol and drug prevention counseling program. The student would be charged a (\$25) fee to offset some of the cost of this counseling program.

Third Offense: The third offense would typically result in some sort of Disciplinary Suspension. The duration of the suspension would depend on the student's educational and disciplinary record.

If any of the above mentioned offenses are very minor, the resident Director or Judicial officer would have the option to issue a lesser sanction. If any of these offenses are major violations of campus policy, the sanctions may be more severe. Major violations typically result in police involvement, criminal charges, hospitalization of participants, or involve the illegal sale or distribution of drugs or provision of alcohol to students who are underage.

College Judicial System

The Standard of Behavior and College Policies are intended to promote student development and ensure an atmosphere of learning necessary to the well being of all college community members on and off-campus. *Violation of college policy off-campus may be subject to disciplinary action by the college judicial process.* The Office of Student Affairs implements the standards and procedures of the Judicial Board.

Any member of the college community may bring a complaint directly to the Office of Student Affairs. The compliant must be written and signed. A review by the Office of Student Affairs will be initiated and if appropriate charges will be filed. Specific procedures will be followed if a case is referred to the Judicial Board.

If you are charged with a violation of the rules and regulations the following options exist: you may choose an administrative hearing, or you have the right to a College Judicial Board hearing, or you may choose any administrative action in which you choose to plead guilty to the charges and waive your right to a hearing and the Office of Student Affairs will impose a sanction.

Administrative Sanction Hearing

In an administrative sanction hearing, the Coordinator of Judicial Affairs meets with the accused student to hear the case. This option is usually chosen if a student pleads responsible to the charges and accepts the appropriate sanction. This option requires that the student waive hiis/her right to another hearing and to the right to appeal the decision.

Administrative Hearing

The Administrative Hearing body consists of three college administrators, well versed in judicial matters. An administrative hearing has full representation of evidence and witnesses. The hearing body weighs the evidence presented, determines responsibility or non-responsibility of the accused and makes a sanction recommendation to the Vice President for Student Affairs.

Judicial Board Hearing

The College Judicial Board is comprised of seven members. Five students and two faculty/staff members are

appointed for a term of one year. Members are nominated by the Student Affairs Committee and appointed by the College President. The Judicial Board hears the case, weighs the evidence and testimony of witnesses, and decides upon a sanction if appropriate. To proceed with a hearing a minimum of five Judicial Board members need to be present.

Procedures for the College Judicial Board:

Step 7: A charge for violation may be placed against any student by any other student or by a member of the college community by giving written notice of the charge signed by the complainant to the Office of Student Affairs.

Step 2 The Office of Student Affairs shall give notice of the specific charges against the student, in writing. The notice shall clearly indicate the offense with specific reference to the violated regulation and shall indicate the time and place of the hearing. The notice shall be presented to the accused at least five (5) days prior to the hearing. In extreme cases, the five-day notification period may be waived if deemed necessary by the Vice President for Student Affairs.

A student may waive, in writing, the requirement of a hearing. In such cases, the hearing body will consider the evidence (please see above for further reference). If the student does not waive the requirements of a hearing and does not appear for such a hearing his/her case will be considered by the hearing body and decision will be rendered in his/her absence.

Step 3: The Office of Student Affairs shall insure that any student charged with violating college rules or regulations has, prior to appearing before the Judicial Board, been presented with a statement defining the composition and authority of the Judicial Board.

Step 4: The Judicial Board shall examine all relevant facts and circumstances presented at the hearing and reach an equitable decision. A record of the hearing shall be kept to enable review and every reasonable attempt shall be made to keep the matter appropriately confidential.

Step 5: At the hearing, the student shall have ample opportunity to explain the circumstances surrounding the incident and shall be able to present pertinent evidence and testimony of witnesses. In addition, the student shall have the opportunity to ask questions of any witnesses, respond to written statements submitted against him/her and to respond to questions. The Judicial Board shall also have the right to call witnesses, and to review materials. The student shall have the right to be assisted by an advisor of his/her choice. The advisor may not openly participate in the hearing.

Step 6: The Judicial Board shall notify the student in writing of their final decision. Certain cases of student misconduct may require that official college action be taken. Although a variety of less formal action may be in many cases, the following are the official disciplinary actions.

Disciplinary Warning, which shall be issued to indicate to a student that his/her behavior is in violation of college regulations.

Disciplinary Probation, which is a more stringent warning for a more serious or frequent violation. The

probationary status shall be issued for a period of time and may include specific restrictions on the student.

Disciplinary Suspension, which separates the student from the college for a stated period of time. At the end of this period, the student may apply for readmission to the college.

Disciplinary Dismissal, which permanently separates the student from the college.

Additional sanctions may include community service, counseling (Fredonia CARES), restitution, apology, and specific restrictions.

Should the decision involve Disciplinary Warning or Disciplinary Probation, the decision made by the Judicial Board shall be final unless they are reversed or altered by the written decision of the College President of his/her designee. The student shall have the right to appeal to the College President or his/her designee in writing within five (5) days from the mailing of such notification.

In cases involving suspension or dismissal, the Judicial Board shall recommend such action to the President of the College or his/her designee, in which case the College President's decision shall be final.

Policies of Judicial Board

(a) The Judicial Board shall not discuss or review matters under consideration outside of the hearing. Failure of a Judicial Board member to uphold this provision renders such member subject to impeachment procedures by the Faculty-Student Committee on Student Affairs. Impeachment shall be by a two-thirds vote of that committee. Any violation of this section shall not affect the proceedings of the Judicial Board in a determination of the case.

(b) No member of the Judicial Board shall be either a witness before the court or a person previously engaged in formulating the charge or in presenting materials relating to the case.

(c) Judicial Board records shall be filed with the Office of Student Affairs and released only with the permission of the Judicial Board or the alleged violator. Records shall be kept for five years.

(d) The official student newspaper may be used periodically for informing the campus of action taken by the Judicial Board. Such notification shall be in the form of a summary.

(e) The Judicial Board may adopt bylaws not inconsistent with these rules and regulation upon the affirmative vote of not less than six members.

(f) The Judicial Board shall be composed of seven members. Five students and two faculty/staff members are appointed for term of one year. Three alternates are also chosen to serve as alternates. Members are nominated by a subcommittee of the Student Affairs Committee and appointed by the College President.

(g) In order to nominate, a student must have attained sophomore status (24 credit hours). All members of the Judicial Board must have been a member of the college community for at least one semester before taking office. No student may serve if he or she is on probation the time of the appointment. No member of the Judicial Board may be a voting member of the Student Association, College Senate, or the Student Affairs Committee.

Alcohol EDU

Alcohol EDU is a three-hour, on-line, science-based course that provides detailed information about alcohol and its effects on the body and mind. Students are required to complete this program as a sanction for a first time violation of college alcohol policies.

Drug EDU

Students are required to write a 1,000 word reflective essay as a sanction for a first time violation of college drug policies.

Fredonia C.A.R.E.S.

The Fredonia C.A.R.E.S. (Commitment to Alcohol Responsibility and Education for Students) Workshop is a six-hour course led by the Alcohol and Substance Abuse Counselor at SUNY Fredonia. This workshop has been designed for students who have violated any alcohol/other drug-related college regulation or other college policies while under the influence. Additionally, students who would benefit from examining their alcohol/other drug (AOD) use or are interested in AOD education may also participate in this workshop.

Policy for Involuntary Leave for Medical/Psychological Reasons

A. Standards for Involuntary Leave

(a) Authority for the policy: "In the legitimate interest of the college in protecting property and the safety and welfare of specific individuals or the general public, the College President or his/her designee may temporarily suspend an individual pending a decision by a college hearing board" (Student Rights and Responsibilities, *College Catalog).*

(b) Proscribed Behavior: Any student who:

1. Engages, or threatens to engage, in behavior which poses imminent danger of causing substantial harm to self and/or others, or

2. Engages, or threatens to engage, in behavior which would cause significant property damage, or directly and substantially impede the lawful activities of others, shall be subject to involuntary withdrawal in accordance with the procedures set forth below.

B. Procedure for Leave

(a) Upon preliminary investigation, student will be required to leave the college for at least a week. In that time, it is expected that the student will seek a psychological/medical evaluation. This evaluation will be shared with the Office of Student Affairs and the Director of Counseling. In order to return to school the student also must be evaluated by the Director of Counseling. If cleared to return to school, a contract will be developed which prescribes responsibilities of the student. These responsibilities may include: ongoing counseling, removal from residence life, refraining from alcohol or drug use, etc. Failure to comply with this contract would result in immediate suspension from college.

Consensual Relationships (Faculty/Staff and Students)

The college does not encourage intimate consensual relationships between faculty/staff and students, and has a policy prohibiting intimate relationships between faculty and students in their classes, and faculty/staff and students they are directly supervising. The *Faculty Handbook* provides guidelines regarding this type of relationship and states the following:

"It is the sense of faculty through its College Senate that intimate consensual relationships between college personnel and students create the potential for abuses of authority and for both actual and apparent conflicts of interest."

Students should be aware that if they enter into this type of relationship with college personnel, there may be consequences that impact on their educational experience. This may mean a student thus involved would be unable to take a course from this person or in any way be subject to their supervision authority.

Students with concerns in this matter are encouraged to contact the Office of Student Affairs, Sixth Floor, Maytum Hall, 673-3271 or the Office of Academic Affairs, Eighth Floor, Maytum Hall, 673-3335.

Academic Integrity Policy

1. Opening Statement

The State University of New York at Fredonia holds that the life of the mind and personal integrity go hand in hand, and are inseparable. Adherence to this philosophy is essential if we are to facilitate and promote the free and open exchange of ideas upon which our college mission relies. An essential component of the academic experience at SUNY Fredonia is the conviction that academic goals must be achieved by honorable means. It is expected, therefore, that all students attending the State University of New York at Fredonia will support and abide by all provisions of the following Academic Integrity Policy. It is further understood that by enrolling in courses, students are agreeing to the rules and regulations set forth below.

In order to protect the value of the work accomplished by each student and instructor, our academic community depends upon certain honorable standards of behavior from all its members. SUNY Fredonia trusts all students will refrain from participating in any behavior that will inhibit the pursuit of honest academic advancement. To help students avoid activities that can be construed as dishonest or as violations of academic integrity, a partial list of prohibited behaviors and activities is outlined below. This policy is not intended to limit decisions of faculty of professional programs that operate under more restrictive policies and/or have externally monitored procedures for addressing violations of academic integrity.

II. Violations of Academic Integrity

Violations of academic integrity are described within four broad, overlapping categories: Fraud, Plagiarism, Cheating, and Collusion. Examples of violations of academic integrity include, but are not limited to, those described herein:

A. Fraud

Behaving deceptively, misrepresenting oneself or another person, and falsifying official print and/or electronic documents are actions that seriously undermine the integrity of any social institution and may result in criminal prosecution. In a college setting, fraudulent behavior includes but is not limited to:

1. Forging or altering official school documents, whether in print or electronic form, such as grade reports or transcripts, enrollment documents, transfer credit approvals, etc.

2. Forging or tampering with any college correspondence or medical excuses.

3. Tampering with attendance records, such as one student signing for another student.

4. Tampering with or interfering with grading procedures.

5. Misreporting or misrepresenting earned credentials, including academic status, class standing, and GPA.

6. Taking an exam in place of another student.

7. Failing to disclose necessary information on official college forms.

B. Plagiarism

Plagiarism consists of presenting the work of others as one's own. It is unethical to copy directly the words or work of other authors or artists without giving them credit. It is also unethical to rearrange or add a few words to another author's text while leaving the majority unaltered or to take an author's unique idea or discovery and to represent it as one's own. Specific examples of plagiarism include, but are not restricted to, the following examples:

1. Copying the work of another author and/or artist without giving proper credit in the text or reference to the artwork, presentation or performance; neglecting to cite the original in a footnote; and/or failing to identify full and proper documentation in the list of works cited or sampled for presentation or performance.

2. Implying that another author's words, works, or ideas are one's own. Quoting without the use of quotation marks falsely implies originality and is, therefore, an act of plagiarism.

3. Incorporating into a paper or assignment without acknowledgement verbatim corrections or other suggestions that were made by someone other than oneself, the instructor, or an assigned editor.

4. Taking information from one source (such at the Internet) and citing it as coming from another source (such as a required text or article).

C. Cheating

In all academic situations, any behavior that subverts the purpose of an academic assignment constitutes cheating, whether one actively commits the act of dishonesty on one's own behalf or enables someone else to do so. Examples of cheating include but are not limited to the following:

1. Copying someone else's work or permitting one's own work to be copied. Whether involvement in the copying

process is active or passive, these acts constitute violations of academic integrity if a student is at all complicit.

2. Using unsanctioned materials, notes, software, and or equipment (such as a programmable calculator).

3. Intentionally providing or seeking questions to an exam that will be given in a later section or used as a make-up exam.

4. Communicating or sharing information during an exam obviously constitutes cheating, as does taking an exam for someone else.

D. Collusion

Most colleges and universities support some opportunities for collaborative learning, but unauthorized collaboration is considered collusion. Unless collaboration is expressly permitted by the instructor, students should work alone. Even when an instructor authorizes collaboration, collusion may still occur. In all cases, work submitted should reflect an individual's own effort. Examples of collusion include, but are not limited to, the following situations:

1. A pair or larger group of students studies a problem, one of the students formally writes and/or types the results, the other members of the group copy the results, and each individual submits the work as his/her own.

2. A pair or larger group of students work on a series of problems or tasks, each student completes a portion of the problem set or task, the students combine their work, and each student submits the entire problem set or task as his/her own.

3. A course instructor assigns a task or problem to be completed outside of class and explicitly instructs students not to discuss the task or problem with one another, a part or larger group of students discuss or work together on the task or problem, and each individual submits the results as his/her own.

III. Judicial Procedures for Violations of Academic Integrity

A. Stage One: Departmental Level

1. An instructor who suspects a violation of the academic integrity policy will collect all information and materials related to the offense.

2. The instructor will meet with the student to present his/her charge, and the student will be given an opportunity to answer and explain. If the instructor and the student then agree that no violation has occurred, the matter is resolved and the process ends at this point. If, however, the instructor finds that a violation has occurred, whether the student admits or does not admit guilt, the matter must be communicated to the department chairperson (see No. 3 directly following). A student will not be allowed to drop a course to avoid a course sanction or to suspend judicial procedures.

3. For all cases in which the instructor determines that the student has plagiarized, cheated, colluded, or committed any act of academic dishonesty, the instructor will briefly summarize the offense in writing to his/her departmental chairperson. Copies of all information and materials related to the offense shall accompany this correspondence.

4. After appropriate consultation, the chairperson and the instructor will jointly notify the student in writing about the charge and the resulting sanctions. At this stage, some possible departmental sanctions include but are not limited to the following: a formal warning, a grade of zero being assigned to the particular performance, and/or a failing grade being given for the course. The letter from the chairperson and the instructor may also recommend that the Academic Integrity Review Board hear the case and consider, among several options, placing the student on disciplinary probation, temporarily suspending the student, or permanently expelling the student from the college.

5. Because a student may plagiarize and/or violate provisions of academic integrity in more than one department, the chairperson is required to submit a copy of all correspondence and relevant materials to the appropriate dean of the department in which the offense occurred. For undergraduate students, these materials will be delivered to the Dean of Arts and Humanities or the Dean of Natural and Social Sciences and Professional Studies; for graduate students, materials will be delivered to the Dean of Graduate Studies. The dean will then prepare a full packet of copies for the Vice President for Student Affairs in whose office the packet will be filed as part of the required maintenance of student disciplinary records.

B. Stage Two: Appeal

1. Within 14 calendar days after the chairperson has mailed the letter, the student may decide to appeal the departmental decision. If so, she/he must send a letter of intent to the Vice President for Academic Affairs, with copies sent at the same time to the chairperson in whose department the charge originated, the appropriate dean, and the Vice President for Student Affairs. Upon receipt of such communication and in a timely manner, the Vice President of Academic Affairs will contact the Chair of the Academic Integrity Review Board who will call together the members of the board for a formal hearing. Throughout the appeal process, the charged student is assumed not guilty, and in most circumstances, she/he has the right to remain in class.

2. After the same 14 days, if the student has not appealed, the college will act upon the assumption that the student has accepted the departmental decisions and any sanctions therein. Enforcement of these sanctions hereafter rests with the Office of the Vice President for Student Affairs.

3. If the department has recommended additional sanctions outside its academic purview (probation, suspension, etc.), the Academic Integrity Review Board will be convened to determine if a hearing should be held. If a hearing is scheduled, the Chair of the Academic Integrity Review Board will contact the accused student at least five days in advance.

4. Even if a student does not file a formal appeal within the above time limit, the Vice President for Student Affairs must notify the Chair of the Academic Integrity Review Board whenever a second or subsequent violation is submitted to a student's disciplinary record. The Academic Integrity Review Board will then be convened to review all charges filed and may impose additional sanctions. The Academic Integrity Review Board will consider repeated violations of any or all of the provisions in the Academic Integrity Policy as grievous.

C. Stage Three: Academic Integrity Review Board

1. Whether the student who has been charged decides to appeal the departmental decision, or the Academic Integrity Review Board votes to initiate formal proceedings as the result of other circumstances (see above), the Academic Integrity Review Board will hear and rule on the case. A charged student has the right to select a willing student, faculty member, or an administrative staff member of the college to advise him/her throughout the review process. This non-legal adviser must be a current member of the SUNY Fredonia community (faculty, staff, student), and the adviser may accompany the charged student and advise him/her at any meetings. To avoid conflicts of interest, this adviser may not be selected from the members of the Academic Integrity Review Board.

2. At least one member from each category below is required. A quorum of six members including at least one student representative will be selected from the following categories:

(a) The Chair of the Academic Integrity Review Board who is a full-time tenured faculty member jointly appointed by the President of the college and the Vice President for Academic Affairs and subsequently approved by the College Senate. The chair's term will be two years with the option of renewal, pending reappointment and re-approval.

(b) Either the Vice President for Student Affairs or the Associate Vice President for Student Affairs will provide board access to pertinent Student Disciplinary records and will participate as an ex officio member (see No. 4 below). Before witnesses speak or before questions are asked, this representative of Student Affairs will present a summary of the case.

(c) At least one, but preferably two, undergraduate (or graduate, if pertinent) student representatives selected by the college deans and after nominations by the Joint Chairs and Directors which includes directors and chairpersons of all schools and departments. No two students majoring in a single department will be invited to serve concurrently. To insure that perspectives from a diverse student population are fairly and freely heard, one student will major in an Arts and Humanities department and one will major in a Natural and Social Sciences and Professional Studies department.

(d) The appropriate dean preferred, but one of the other two deans may act in his/her stead whenever necessary.

(e) Two chairpersons of academic departments, one from Arts and Humanities, one from Natural and Social Sciences and Professional Studies,

(f) An additional faculty member from a department not represented by individuals in (a) and (e) above.

3. The Chair of the Academic Integrity Review Board, after prior consultation with the assembled board, may call witnesses, and the student who has been charged may also call witnesses. At the conclusion, the charged student will be asked to address the allegation by pleading guilty or not guilty, and she/he then has the right to speak on his or her behalf. All participants in this hearing will be informed that deliberations are to remain strictly confidential. Hearings of the judicial Review Board will be tape recorded to provide a record of the proceedings.

4. After the hearing, the Academic Integrity Review Board will deliberate and make a formal decision. In the final determination, each of the members of the board, including the Chair of the Board, will cast a single and equally weighted vote. In the event of a tie vote concluding a case, the Chair of the Board will cast an additional vote. Voting will be conducted by written ballot, and the results will be disclosed to board members. Board members are not to disclose either the board's determination or any specifics related to the voting.

5. In a timely manner, the Chair of the Academic Integrity Review Board will complete the hearing report and will deliver copies to the chairperson in whose department the charge originated, the Vice President for Academic Affairs, and the Vice President for Student Affairs. The final report of the Academic Integrity Review Board will include the following:

(a) A determination of Not Guilty (no violation of academic integrity has been found) or Guilty (the student has been found responsible for the charged violation on the basis of the evidence submitted or has admitted guilt).

(b) If the student had been found guilty of violating the Academic Integrity Policy, the penalty must also be identified. Sanctions or penalties imposed should be commensurate with the offense and will take into account the student disciplinary records on file.

6. On the same day the board's decision is delivered to the three individuals above (No. 5), the student will be informed of the board's decision in a meeting with the Vice President for Student Affairs and the Chair of the Academic Integrity Review Board. The student will then be given a copy of the hearing report prepared by the Chair of the Academic Integrity Review Board.

7. Should the student decide to appeal the Academic Integrity Review Board's decision, he or she may do so in a written justification to the President of the college but only if/when the substance of the presented case has changed (i.e., additional and significant evidence is discovered).

IV. Maintenance of Student Disciplinary Records

Individual files on all students who are formally charged with violations of the Academic Integrity Policy will be prepared at the time of the student's initial offense and maintained for 10 years thereafter in the Office of the Vice President for Student Affairs. Instructors and chairpersons will initiate this process by submitting, to their dean, a copy of the information and materials related to the offense and a copy of the departmental letter which identifies the charge and which has been mailed to the student. All subsequent materials related to the charge will be copied in the dean's office and delivered to the Vice President for Student Affairs for the student's disciplinary file.

Statement Regarding SUNY Fredonia's Celebration of Diversity

The college welcomes the experience, talent, and surge of energy that comes from a culturally diverse campus. It has pledged to ensure that everyone is treated fairly, without degradation of race, religion, ethnicity, gender, affection orientation, physical/mental challenge, or any other characteristic not germane to a person's rights or human worth. Campus specifically prohibits:

Fighting and threats to, physical abuse of, or harassment that threatens to or does endanger the health, safety, or welfare of a member of the college.

Engaging in any action or situation that which recklessly or intentionally dangers the mental or physical health of a member of the college community; creating in a situation that results in the discomfort of, or harassment or excessive ridicule of a member of the college community.

All members of the campus community are expected to live, learn and work with a foundation of understanding and appreciation of differences. Faculty and staff, as mentors and educators, are encouraged to support this policy through personal interactions with students, classroom discussion, and careful selection of curricular materials and content.

Policy Statement on Religious Absences

The Education Law of New York says, in part:

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he/she is unable, because of his/her religious beliefs, to attend classes or to participate in any examination, study, or work requirement on a particular day or days.

2. Any student in an institution of higher education who is unable, because of his/her religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.

3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his/her religious beliefs, an equivalent opportunity to make up any examination, study, or work requirements which he/she may have missed because of such absence on any day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.

4. If registration, classes, examinations, study or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study, or work requirements shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to the student for these classes, registration, examinations, study, or work requirements held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his/her availing himself/herself of the provisions of this section.

6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the Supreme Court of the county in which such institution of higher education is located for the enforcement of his/her rights under this section. It shall be the responsibility of the administrative officials of each institution of higher education to give written notice to students of their rights under this section, informing them that each student who is absent from school, because of his or her religious beliefs, must be given an equivalent opportunity to register for classes or make up any examination, study or work requirements for which he or she may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to such student such equivalent opportunity.

7. As used in this section the term "institution of higher education" shall mean any institution of higher education, recognized and approved by the Regents of the University of the State of New York, which provides a course of study leading to the granting of a post-secondary degree or diploma. Such term shall not include any institution which is operated, supervised or controlled by a church or by a religious or denominational organization whose educational programs are principally designed for the purpose of training ministers or other religious functionaries or for the purpose of propagating religious doctrines. As used in this section, the term "religious belief" shall mean beliefs associated with any corporation organized and operated exclusively for religious purposes, which is not disqualified for tax exemption under Section 501 of the United States Code.

Policies on Motor Vehicles

All members of the college community (students, faculty, and staff) who park cars or other motor vehicles on campus between the hours of 7 a.m. and 5 p.m. must register their vehicle each semester within seven days after classes begin.

When a new or borrowed vehicle is brought on campus, University Police (673-3465) must be notified immediately in order to avoid unnecessary ticketing. Any vehicle obtained during the semester must be registered within 48 hours at the Office of Student Accounts.

Regulations Governing Motor Vehicle Use and Campus Parking Facilities, is available on-line at www.fredonia.edu/UPD/parkingregulations.htm.

Students, faculty and staff shall comply with all traffic and parking regulations in all campus areas and shall comply with all published regulations or be subject to fines. Failure to comply can result in the loss of campus driving, parking and vehicle registration privileges.

Computer and Network Usage Policy

(As amended May 6,2002)

I. Introduction

Access to modern information technology is essential to the state university mission of providing the students, faculty and staff of SUNY Fredonia with educational services of the highest quality. The pursuit and achievement of the SUNY mission of education, research, and public service require that the privilege of the use of computing systems and software, internal and external data networks, as well as access to the World Wide Web, be made available to all those of the SUNY community. The preservation of that privilege for the full community requires that each faculty member, staff member, student, and other authorized user comply with institutional and external standards for appropriate use.

To assist and ensure such compliance, SUNY Fredonia establishes the following policy which supplements all applicable SUNY policies, including sexual harassment, patent and copyright, and student and employee disciplinary policies, as well as applicable federal and state laws.

II. Authorized Use

SUNY Fredonia computer facilities are a resource for members of the campus community, to be utilized for work consistent with the instructional, research, and administrative goals of the college.

As a condition for use of the computing facilities, all users must adhere to the regulations below.

(a) Authorized Activities. SUNY Fredonia computer facilities shall be utilized solely for work consistent with the instructional, research, and administrative goals of the college, as defined in the SUNY Fredonia "Missions and Goals" statement and the SUNY Policy Manual. Item 007.7.

(b) User Privacy. Users shall respect the privacy of others. Users shall not intentionally view information of other users, modify or obtain copies of other users' files, or modify other users' passwords without their permission. Fredonia computers and networks are designed to protect user privacy; users shall not attempt to circumvent these protections.

(c) System Integrity and Denial of Service. Users shall respect the system integrity of campus computing facilities. For example, users shall not intentionally develop or use programs that infiltrate a computing system, or damage or alter the software components of a computing or network system.

(d) Resource Accounting. Users shall not develop or use procedures to alter or avoid the accounting and monitoring of the use of computing facilities. For example, users may not utilize facilities anonymously or by means of an alias, and may not send messages, mail, or print files that do not show the correct username of the user performing the operation.

(e) *Resource Usage*. Users shall use the computing facilities in a responsible and efficient manner. Users shall not alter the lab microcomputers in any way. They are expected to refrain from deliberately wasteful practices

such as printing unnecessary listings, performing endless unnecessary computations, or unnecessarily holding public terminals for long periods of time when others are waiting for the same resources. Users shall not develop or use procedures that obstruct authorized use by others. Users shall not interfere with microcomputer setups that are intended to keep microcomputer software current and legal. Users shall not install personal software in campus computing labs. Users shall not use applications that use an unusually high portion of the network bandwidth. Users shall avoid wasting computing resources by excessive game playing or other trivial applications; by sending chain letters or other frivolous or excessive messages locally or over the network; by printing excessive copies of documents, files, images, or data. Campus printing must pertain to academic work or personal intellectual growth and is limited to no more than 10 copies of an individual document. For example, printing 10 copies of a party announcement is not permitted.

(f) Copyrights and Licenses. Users shall not violate the legal protection provided by copyrights and licenses held by SUNY Fredonia. Users shall not make copies of any licensed or copyrighted computer program found on any SUNY Fredonia computer or storage device without the written authorization of Information Technology Services. U.S. Federal copyright law grants authors certain exclusive rights of reproduction, adaptation, distribution, performance, display, attribution, and integrity to their creations. Works of literature, photographs, music, software, film, and video works can all be copyrighted. Examples of probable violations of copyright laws include, but are not limited to: making unauthorized copies of any copyrighted material (such as commercial software, text, graphic images, audio, and video recordings); distributing copyrighted materials over computer networks or through other means; resale of data or programs, or the use of them for non-educational purposes or for financial gain; public disclosure of information about programs (e.g., source code) without the owner's authorization.

(9) ResNet Network Usage Policies. ResNet provides students living in the residence halls the ability to further their educational experience. This is accomplished by enabling access to computing resources at SUNY Fredonia and through the Internet. It is the responsibility of every student to use these resources in compliance with all university, local, state, and federal laws and regulations. To ensure access to these resources is maintained, compliance with policies regarding acceptable use of ResNet is expected of all students who utilize it.ResNet network access is a privilege that can be revoked if used inappropriately. By accepting university housing and/or connecting to ResNet, the user agrees to the terms and conditions of the ResNet Network Usage policies and all other university policies. Actions that are detrimental or inappropriate when accessing the university and Internet resources include but are not limited to those listed in the Campus Network section below.

(h) Campus Network Anti-virus Protection Policy, Addition to Computer and Network Usage Policy Section II. H, effective, 10/23/01. Every computer connected to the campus network will be required to run current anti-virus protection software. Campus-provided "managed" anti-virus protection will be placed on the majority of campus-owned personal computers. The campus provides anti-virus protection software for students to utilize. ResNet students may utilize a "managed" or "unmanaged" mode, as owners prefer and as operating systems allow. Non-ResNet student anti-virus protection is un-managed.

It will be the responsibility of "un-managed" clients wishing to use the campus network connectivity to keep anti-virus protection up-to-date. This "un-managed client group would include:

- Campus-owned Macintosh, Linux, and UNIX-based machines
- Non-campus owned computers
- Student-owned computers for those students not wishing to utilize the managed anti-virus protection provided by the campus

In addition, out-bound ResNet e-mail will be filtered through a server that will scan and detect viruses.

ITS and ResNet have the authority to disconnect computers from the network that have been detected as infected. The computer will remain disconnected until the user demonstrates the following that the machine has been cleaned of viruses/worms, that an appropriate anti-virus product has been licensed for the machine through at least the end of the current academic year, and that the product has been installed and set up to automatically check for and install virus definition updates.

Second and subsequent infractions which result from a lack of an installed, licensed anti-virus product may result in additional penalties.

Users shall not utilize the campus network to provide Internet access to any outside source, be it commercial or private.

Actions that are detrimental or inappropriate when accessing the university and Internet resources include but are not limited to the following:

- Network naming conventions: All student users must use the username assigned by the college ("abcd1234") for the computer name that will be displayed on the network. The description field is required to be left blank.
- Shared connections: A network connection supplied by the college is solely for the use of the individual subscriber assigned to that connection. Connections may not be shared among multiple users. All network subscribers cannot use any mechanisms (either hardware or software) to provide network connectivity to non-subscribers. Users are personally responsible for all use of their computers and network connections and will be held accountable for any violations that occur involving their computer or network connections.
- Network infrastructure: All adds, moves, and changes of network infrastructure electronics including but not limited to products such as repeaters, hubs, concentrators, bridges, routers, and switches must be coordinated and installed by college personnel. This includes all cabling that is patched into these devices that provide connectivity.

- Assigned IP address: Alterations of any kind to the assigned IP address or related settings, including using an unauthorized IP address is prohibited.
- File Sharing: Users are responsible for the security of the system. All student shared files must be password protected. If users mis-configure the file sharing, others may be able to affect and alter a user's computer. Users are responsible for the content of files that they distribute. Current laws may permit users to be sued for libel, invasion of privacy, software piracy, pornography, and other such crimes. SUNY Fredonia is not responsible for any loss of data that may occur if users choose to activate file sharing.
- Copyright: Distribution of copyrighted materials such as computer software and music is normally prohibited, except where a portion of copyrighted material may be part of the public domain. Providing copyrighted materials, including copyrighted music in mp3 format, is a violation of Federal Copyright Laws (U.S.C. Title 17).
- Monetary gain: Network access for monetary gain or for business activities of groups or organizations is prohibited. Re-sale of access or services is prohibited.
- Domain registration: The registration of commercial hostnames to a Network IP address is prohibited.
- Servers: establishing a server or providing a service that over-utilizes the shared bandwidth is prohibited. FTP, Web servers, e-mail servers, and Napster are examples of server programs.
- Port Scanning: Scanning for computers on any network using port scanners or network probing software including packet sniffers is prohibited.

The college networks are monitored and violators of SUNY Fredonia policy will be denied service and referred to the proper authority, as noted in Section V of this policy.

(i) Electronic Mail Policy. The purpose of the policy is to ensure the proper use of SUNY Fredonia's e-mail system by its students, faculty, and staff. Electronic Mail is a tool provided by the college to complement traditional methods of communications and to improve education and administrative efficiency. Users have the responsibility to use this resource in an efficient, effective, ethical and lawful manner. Use of the college's e-mail system evidences the user's agreement to be bound by this policy. Violations of the policy may result in restriction of access to SUNY Fredonia's e-mail system and/or other appropriate disciplinary action.

- SUNY Fredonia owns all e-mail accounts run on its system.
- While incidental non-business personal use of e-mail is acceptable; conducting business for profit using college resources is forbidden.
- While the college will make every attempt to keep e-mail messages secure, privacy is not guaranteed and users should have no general expectation of privacy in e-mail messages sent through the Institutional system. Under certain circumstances, it may be necessary for the IT staff or other appropriate campus officials to access e-mail files to maintain the system, to

investigate security or abuse incidents or violations of this or other Institutional policies. Such access will be on an as needed basis and any e-mail accessed will only be disclosed to those individuals with a need to know or as required by law.

- Individuals are responsible for saving e-mail messages as they deem appropriate. Due to limited resources, the SUNY Fredonia ITS department has the right to restrict the amount of user space on the e-mail server as necessary and to purge and remove e-mail accounts of students who have not registered for a semester, as well as for other individuals no longer affiliated with the college.
- When using e-mail as an official means of communication, students, faculty, and staff should apply the same professionalism, discretion, and standards that they would use in written business communication. Furthermore, students, faculty, and staff should not communicate anything via e-mail that they would not be prepared to say publicly.
- Students, faculty, and staff may not improperly disclose college information in e-mail that they are privileged to access because of their position at the college.
- Approval and transmission of e-mail containing essential college announcements to students, faculty, and/or staff must be obtained from the appropriate authority. Only the Offices of Vice President or President can authorize the sending of broadcast messages to a wide audience of students, faculty, and staff within the scope of their authority.
- · ITS maintains the college's official e-mail system
- Any inappropriate e-mail, examples of which are described below and elsewhere in this policy, is prohibited. Users receiving such e-mail should immediately contact the Associate Vice President for Information Technology Services.
 - The creation and exchange of messages that are harassing, obscene or threatening.
 - The unauthorized exchange of proprietary information or any other privileged, confidential or sensitive information.
 - The creation and exchange of advertisements, solicitations, chain letters and other unofficial, unsolicited e-mail.
 - The creation and exchange of information in violation of any laws, including copyright laws, or Institutional policies.
 - The knowing transmission of a message containing a computer virus.
 - The misrepresentation of the identity of the sender of an e-mail.
 - The use or attempt to use the accounts of others without their permission.
- Newsgroups that are provided as a service to faculty, staff, and students are for posting college-related information. These will be monitored by those responsible for their content; any posted material deemed inappropriate may be removed without prior notification.

(j) Personal Web Pages. Users may create their own homepages. Faculty and students will have FTP (File Transfer Protocol) access to a personal directory on the college server where they can maintain their own homepage files. Under no circumstances should personal space and/or files be shared with other users. In designing a personal homepage, keep in mind that homepages may not be used for personal profit, nor to violate copyright, pornography or any other state or federal laws. The college reserves the right to monitor all work on the server and remove any personal homepage or files it determines have violated any of the policies. In addition, failure to comply with computing policies could, in some cases, lead to disciplinary action or criminal prosecution.

- (k) The College Website and use of the Web Servers.
 - The SUNY Fredonia website, which begins at the home page www.fredonia.edu is a volume of documents on several servers created by diverse authors which, as linked, represents the college as an official publication.
 - All departmental or student group web pages are part of the official college website, and are screened, monitored, coordinated, supervised, and controlled by the college webmaster, who retains the right to edit the pages.
 - All official college web pages must be designed to meet standards of technology or content set by the college webmaster or any overriding authority such as SUNY or New York State.
 - All authorized users of the web servers (for official or personal pages) will be restricted to 7 megabytes of hard drive space per folder, and all space is to be dedicated to web page use only. The college may allow authorized individuals more than 7 megabytes of space if a legitimate academic need is described to the webmaster. No personal file storage or other file activity is permitted on the web servers.
 - When notified that they are exceeding the 7-megabyte limit, authorized users must delete a necessary amount of material in a time period specified by the webmaster or risk deletion of all files.
 - Except that access is gained by request, web server and website user responsibilities and access policies are the same as those under Section III of this document. See sections on privacy, copyright, personal software, harassmen f, libel, slander, accounts, sharing of access, permitting unauthorized access, termination of access, circumventing security, breaching security, abuse of resources, private commercial purposes, political advertising or campaigning.
 - All personal and official web pages will be free of content articulated in sections 1 and 2 of this document, in addition to pornography, hate speech, and non-college sponsored e-commerce.
 - Any official or personal web pages that employ technological features beyond HTML, Java, JavaScript, client-side VBScript and CSS must be submitted for review and approval to the college webmaster.

- Web pages using applications such as ASP must be submitted for review and approval by the college webmaster.
- World-wide write access is prohibited on any personal or official page.
- When a violation of these policies occurs, SUNY Fredonia reserves the right to remove any and all contents in any files or folders on the web server without advance notice or consultation, and to revoke server permissions to any authorized user.
- Incidences of violations found by the webmaster may be reported to appropriate college authorities.

Policy Addendum (Approved 5/6/02) College Website and use of the Web Servers

All college-based groups (including student groups) who select external web developers will be responsible for overseeing and maintaining quality control procedures and meeting the standards of technology and content set by the college webmaster or any overriding authority such as SUNY or New York State. External developers, with no current, formal or direct affiliation with the college, will not be authorized to possess individual accounts on the college's web servers. All departments or student groups who choose to have an external developer work on their web pages must contact the Help Desk prior to commencing work.

All web pages, images or files that are located on the college web servers must be maintained and updated to reflect current and accurate content. In no instances should the web servers be utilized for storage or archiving purposes. Files that are no longer active or current must be removed from the college web servers periodically, upon the request of the college webmaster, or risk removal as deemed appropriate by the webmaster. The webmaster will periodically remind the campus community to purge its web server directories of all inappropriate or out-of-date files.

Web publishers are responsible for the content of the pages they publish on the college web server and are expected to abide by the highest standards of quality and responsibility. Content must be relevant to the college. Web authors and publishers are required to comply with all SUNY Fredonia college policies, as well as all local, state, and federal laws concerning appropriate use of computers and the Internet. Departmental web pages must conform to the design standards set forth by the college. Users should see the *Checklist for Developing and Publishing New Web Pages* located at: www.fredonia.edu/webresources/checklist.htm

The purpose of the web page is to provide information to students and colleagues and must contain the following as a minimum:

 All TITLE tags located within html files must use the following format to foster consistency, clear page identification, and increase rankings in search engines:

TITLE FORMAT: Page Title - Departmental Name, SUNY Fredonia *Example:* <TITLE>Electronic Journals, Daniel A. Reed Library, SUNY Fredonia<TTITLE>

- All web pages must include the college name "SUNY Fredonia." *Rationale:* This will help identify the location if the user has entered the website without going through the home page.
- All pages must include a link back to the SUNY Fredonia home page (http://www.fredonia.edu).

In no instances should file names include spaces. Hyphens (-), underscores (-), alpha and numbers 0-9 are permissible.

- Correct Examples: FileName.html FileName. html FileName. html
- Incorrect Example: File Name.html

All web pages must meet the minimum web accessibility requirements as set forth under Section 508 of the Rehabilitation Act, and mandated by the *New York State Office for Technology Policy* 99-3. The policy requires that all New York State agencies' websites provide universal accessibility to persons with disabilities.

All pages must include the following Meta tags for searching and identification purposes. If assistance is required, persons should use the following code example and replace all underlined information with keywords and a description that are specific to the person's web page. (Copy and paste the code below; replacing underlined content with information specific to the person's web page.)

<HEAD>

<META NAME="keywords" CONTENT="Include important keywords from your web page here (i.e., SUNY, public, higher education, Fredonia, America's Best Colleges, Blue Devils, music, liberal arts, Chautauqua County)."><META NAME="description" CONTENT="Include a brief description of your web page here (i.e., SUNY Fredonia is a four-year comprehensive, public, liberal arts college in the Northern U.S., known for bachelor's degree programs in music and education, and named one of America's Best Colleges)">

</HEAD>

The college will host websites for non-college, non-profit organizations as long as their function is relevant to the overall college mission, and as long as there is an active member of the Fredonia campus community (faculty or staff holding a current appointment) who will serve as the sponsor for that website. Sponsors will be issued a special group account that may be used by the web developer, and sponsors will be responsible for maintaining and monitoring the organization's web pages. All new websites or web pages must be submitted by the sponsor for review and approval to the college webmaster prior to uploading to the college servers. Sponsors must also notify the college webmaster any time the content on any of the pages has been modified. These non-campus, hosted websites must comply with all the policies that are required of official college web pages. The college webmaster reserves the right to edit content and revoke server permissions to any authorized user who does not abide by the policies set forth by SUNY Fredonia. - as approved by the Vice President for Academic Affairs 05/06/02.

(I) Recreational Use. Recreational use of computing facilities, including computer games and social network communication, is allowed only when no other instructional, research, or administrative function requires the resources being used. Anyone using a computer for recreational purposes is required to relinquish the computer immediately to someone needing it for academic or administrative purposes.

(m) Academic Dishonesty. Practicing any form of dishonesty through use of computing facilities (for example cheating, plagiarism, or fraud) is prohibited.

(n) *Harassment*. Using computers or networks to harass, abuse or intimidate another person is prohibited. Users shall not develop or use programs that harass other users. Users shall be sensitive to the public nature of shared facilities, and take care not to display on screens in such locations images, sounds or messages that could create an atmosphere of discomfort or harassment for others.

(o) *Obscenity.* Obscene language in electronic mail, messages, process names, file names, file data, and other publicly visible forms is prohibited.

(p) *Child Pornography.* Federal Child Pornography Law makes it illegal to create, possess, or distribute graphic depiction of minors engaged in sexual activity, including computer graphics. Computers storing such information can be seized as evidence.

(4) *Pornography.* Pornography in electronic mail, file data, web sites, and other publicly visible forms, is prohibited.

III.. Authorization

Information Technology Services authorize the use of SUNY Fredonia computer facilities by members of the campus community (faculty, staff, students, and other affiliated individuals or organizations authorized by SUNY Fredonia). Use by nonaffiliated institutions and organizations shall be in accordance with *SUNY Administrative Procedures Manual Policy* 007-1 : Use of Computer Equipment or Services by Non-affiliated Institutions and Organizations. All who use SUNY Fredonia computer facilities have the responsibility to do so in an effective, efficient, ethical, and legal manner, as outlined below.

(a) User Accounts.

Use of SUNY Fredonia's large computer systems requires that a user account be issued by the college, granting access to a particular system. Every computer user account issued by SUNY Fredonia is the responsibility of the person in whose name it is issued. College recognized clubs and student organizations may be issued a user account. Faculty advisors shall designate a particular person(s) authorized to act on behalf of the club or organization. This person(s) is responsible for all activity on the account and will be subject to college disciplinary procedures for misuse. The following will be considered theft of services, and subject to penalties described in Section V, below.

(1) Acquiring a username in another person's name;

(2) Using a username without the explicit permission of the owner and of Information Technology Services;

(3) Allowing one's username to be used by another person without explicit permission of Information Technology Services.

(b) Termination of Access to Fredonia Computing Facilities

(1) Intentional violation of policies contained in this document will result in immediate termination of access.

(2) Access will also be terminated for:

- Immediate termination of student access upon complete withdrawal from college courses.
- Termination 90 days after student graduation.
- Termination of faculty/staff 30 days after termination of employment.
- Emeritus faculty and staff retain eligibility for use of Fredonia computing facilities.

(c) Restricted Access Systems

Access to selected administrative computers and programs is restricted on a "need-to-know" basis conforming to State University of New York policy guidelines. Unauthorized access or attempted access to these machines or data will constitute theft of services and will be subject to the penalties described in Section V, below. Authorization for use of these systems is granted solely by Information Technology Services, and reviewed by the campus Security Administrator.

(d) Password Security

It is mandatory that user accounts be kept secure by keeping passwords secret, and changing the passwords often. Users must set a password which will protect their account from unauthorized use, and which will not be guessed easily. Avoid selecting easily guessable passwords, for example nicknames, birth dates, and phone numbers. Users must report to Information Technology Services any use of a user account without the explicit permissions of the owner and of Information Technology Services.

(e) Microcomputing.

Use of SUNY Fredonia microcomputing facilities does not generally require that a user account be issued. The authorization to utilize college microcomputer facilities is granted to members of the campus community on condition that they adhere to the regulations specified in Authorized Use. While the public is not barred, Fredonia faculty, staff and students have priority use over microcomputing facilities. Public users may be asked to yield to Fredonia faculty, staff and students at any time. Microcomputing access may be granted to minors with written permission from their parent/guardian.

IV. Limitations on Users' Rights

The issuance of a password or other means of access is to assure appropriate confidentiality of Fredonia files and information and does not guarantee privacy for personal or improper use of university equipment or facilities.

SUNY Fredonia provides reasonable security against intrusion and damage to files stored on the central facilities. Fredonia also provides some facilities for archiving and retrieving files specified by users, and for recovering files after accidental loss of data. However, the college is not responsible for unauthorized access by other users or for loss due to power failure, fire, floods, etc. Fredonia makes no warranties with respect to Internet services, and it specifically assumes no responsibilities for the content of any advice or information received by a user through the use of Fredonia's computer network.

Users should be aware that SUNY Fredonia computer systems and networks may be subject to unauthorized access or tampering. In addition, computer records, including e-mail, are considered "records" which may be accessible to the public under the provisions of the New York State Freedom of Information Law.

V. Unauthorized Use

Violation of the regulations above is unethical and may constitute a criminal offense.

Offenses will be dealt with according to any or all of the following: applicable Federal laws, Chapters 156 and 165.15 of the New York State Penal Law; the SUNY Fredonia *Student Rights and Responsibilities;* other laws, regulations, and policies of the campus, the State University of New York, the State of New York and the United States of America. Offenses may result in the suspension or permanent closing of usernames, campus disciplinary action, legal action and/or other action.

When Information Technology Services or the ResNet Office becomes aware of a possible violation, we will initiate an investigation in conjunction with the campus Security Administrator and/or relevant campus offices including the Office of Student Affairs, Human Resources Office, and University Police. Users are expected to cooperate fully in such investigations when requested.

In order to prevent further unauthorized activity during the course of such an investigation, Information Technology Services may suspend authorization for use of all computing facilities for the user(s) involved in the violation.

Appendix A: Definitions

(1) Computing Facilities include all mainframes, minicomputers, microcomputers, networks, and computer peripherals owned or operated by SUNY Fredonia.

(2) Users are individuals who make use of SUNY Fredonia computing facilities. Most users are students, faculty, and staff members of SUNY Fredonia. Some users are non-campus personnel authorized by the campus to make use of computing facilities, including volunteers for local non-profit agencies, scholars visiting from other SUNY institutions, and the like.

(3) A Username is a unique code assigned to each large system user by the SUNY Fredonia Information Technology Services. When used with a password chosen by the user, the username allows access to the large system computing facilities of the college.

(4) "Managed" anti-virus protection results in anti-virus upgrades being controlled by a server and "pushed" to the desktop.

SEXUAL DISCRIMINATION AND SEXUAL HARASSMENT

The College Policy

Sexual discrimination in the form of sexual harassment, defined as the use of one's authority and power to coerce another individual into sexual acts or relations or to punish the other for his/her refusal, shall be a violation of the policy of SUNY Fredonia.

What Is Sexual Discrimination?

"No person in the United States shall on the basis of sex be excluded from participation in, be denied the benefits of, or be subject to discrimination under any education program or activity receiving Federal financial assistance." Title IX of the Educational Amendments of 1972.

What Is Sexual Harassment?

Sexual harassment may include repeated unwelcome sexual advances, requests for sexual favors and other verbal or physical conduct of a sexual nature carried out by someone in the workplace or educational setting. Such behavior may offend the recipient, cause discomfort or humiliation and interfere with job or school performance.

Peer Harassment - Students have a right to an environment free from sexual harassment, not only by persons in positions of power, but by any member of the university community. Sexual harassment constitutes a serious threat to the free interaction and exchange necessary for educational and personal development.

Sexual harassment may range from inappropriate sexual innuendos to coerced sexual relations. It can happen to both men and women, but a woman is more often the victim.

What Can Be Done About Sexual Discrimination/Harassment?

What can a student do when he/she believes that. .

- course material ignores or depreciates a student because of his/her sex?
- an adviser does not take a student's career and educational goals seriously because she/he appears to believe them inappropriate for members of his/her sex?
- a student is denied resources, such as financial aid, teaching assistantships, or admission to a program for sexist reasons?
- a student is pressured by a professor or staff person to participate with him/her in social and/or sexual activities?

Students often feel powerless in such situations but there are people on campus who are willing to talk to them about those problems without any obligation on the part of either party. Such situations as those described above are not condoned by SUNY Fredonia nor the teaching profession. In some instances they occur out of ignorance and misunderstanding and need only to be brought to the attention of the professor. In other instances they can be considered unethical and subject to professional reprimand.

Actions A Student Can Take

(In suggested order)

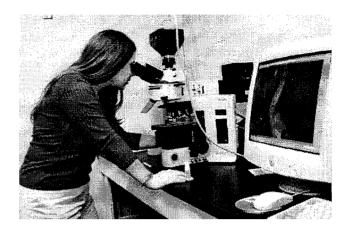
1. The student can talk to the professor or staff person, carefully explaining why he/she views the particular comment, joke, course reading, action taken, etc. as sexist. The student should regard the meeting as a kind of consciousness-raising session where he/she can help him/her understand how he/she feels. Sometimes people aren't aware of how their remarks or actions affect someone else, and communicating their feelings to the professor might be the most helpful to him/her in avoiding such actions in the future. The student is to be sure to prepare for the meeting ahead of time with documentation (e.g., class notes, tapes, specific comments he/she made and a logical presentation). Sometimes people don't understand how sexist remarks can hurt; it might help the student to draw the analogy of racist or anti-ethnic remarks - "Would you make fun of a person's skin color or ethnic background? Then why do so with sex?" To get support the student should consider going to see the professor with several other people from class. If he/she can't find others in the class (and discussing the issues with other students in itself may help raise consciousness), he/she should take friends along who aren't in the class. The student might also seek help from those listed below.

2. The student should contact college people and groups who are concerned about sexual discrimination. These people are willing to listen, discuss specific incidents, and provide help and advice if wanted:

Joyce H. Smith, Affirmative Action (ext. 3358) Ann McCarron Burns, University Police (ext. 3465) David E. Herman, Student Affairs (ext. 3271) Leanna Jardin, Counseling Center (ext. 3424) Laura Stonefoot, Student Affairs (ext. 3271) Monica Brown, Multicultural Affairs (ext. 3398)

3. If a student has talked to the professor or staff person and sexual discrimination continues, the student should write a letter to him/her documenting the incidents and explaining why they are offensive. The student should state that he/she has not obtained results from previous discussion(s) and note the date(s) of the discussion(s). The student should send a carbon copy to the head of his/her department or unit and to one of the above-listed people. Students who fail to receive a satisfactory answer from the staff members and/or head, should request a meeting with the two of them and take along an objective third party (another professor or perhaps one of the people in the above list).

4. Students should not enroll in classes that are sexually discriminatory, and should let the professor know why they haven't enrolled. In filling out course evaluation forms, a student should make it known why he/she has been offended by such discriminatory comments or actions. If the professor has responded to earlier complaints and has made efforts to change, support those efforts in the evaluation. Students are asked to remember to always give full support to professors who are fair and who treat students as human beings regardless of sex.



5. It may be necessary to file a formal grievance or complaint. This is a very serious step and should not be undertaken without discussion and counsel with a staff member who understands established grievance procedures at SUNY Fredonia. Once again, students are asked to consult with one of the people on the above list.

Credit for the above is readily given to the Project on the Status and Education of Women, Association of American Colleges, 1818 R Street, N.W., Washington, D.C., and the Utah State University Committee on the Status of Women.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

The Family Educational Rights and Privacy Act of 1974 sets forth requirements designed to protect the privacy of parents and students. The statute governs the access to records maintained by educational institutions, and the release of such records.

The Family Educational Rights and Privacy Act permits current or former students to inspect and review their education records. Students are also accorded a right to a hearing in order to question the contents of their education records.

Written consent from students may be required before personally identifiable information about them will be released from their education records, as provided by law.

Specifically, institutions are permitted to release directory information on students unless the students have notified the institution to withhold this information. Directory information is defined as: the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student.

Inquiries or complaints may be filed with the Family Educational Rights and Privacy Act Office, Department of Health, Education and Welfare, 330 Independence Avenue, S.W., Washington, D.C. 20201

Copies of the SUNY Fredonia compliance policy and the Family Educational Rights and Privacy Act are available at the Office of Student Affairs.

RULES AND REGULATIONS FOR MAINTENANCE OF PUBLIC ORDER ON CAMPUS

Rules and regulations for maintenance of public order on premises of state-operated institutions of the State University of New York adopted by the State University Board of Trustees on June 18, 1969, and amended on July 10. 1969, April 9, 1970, April 29, 1970, and during the 1982-83 academic year.

- Statement of Purpose. The following rules are adopted in compliance 1. with Section 6450 of the Education Law and shall be filed with the Commissioner of Education and the Board of Regents on or before July 20, 1969, as required by that section. Said rules shall be subject to amendment or revision and any amendments or revisions thereof shall be filed with the Commissioner of Education and Board of Regents within 10 days after adoption. Nothing herein is intended, nor shall it be construed, to limit or restrict the freedom of speech nor peaceful assembly. Free inquiry and free expression are indispensable to the objectives of a higher educational institution. Similarly, experience has demonstrated that the traditional autonomy of the educational institution (and the accompanying institutional responsibility for the maintenance of order) is best suited to achieve these objectives. These rules shall not be construed to prevent or limit communication between and among faculty, students, and administration, or to relieve the institution of its special responsibility for self-regulation in the preservation of public order. Their purpose is not to prevent or restrain controversy and dissent but to prevent abuse of the rights of others and to maintain that public order appropriate to a college or university campus without which there can be no intellectual freedom and they shall be interpreted and applied to that end.
- Application of Rules. These rules shall apply to all state-operated 2. institutions of the State University. These rules may be supplemented by additional rules for the maintenance of public order heretofore or hereafter adopted for any individual institution, approved and adopted by the State University Trustees and filed with the Commissioner of Education and Board of Regents, but only to the extent that such additional rules are not inconsistent herewith. The rules hereby adopted shall govern the conduct of students, faculty, and other staff, licensees, invitees, and all other persons, whether or not their presence is authorized, upon the campus of any institution to which such rules are applicable and also upon or with respect to any other premises or property, under the control of such institution, used in its teaching, research, administrative, service, cultural, recreational, athletic, and other programs and activities, provided however, that charges against any student for violation of these rules upon the premises of any such institution other than the one at which he/she is in attendance shall be heard and determined at the institution in which he/she is enrolled as a student.
- Prohibited conduct. No person, either singly or in concert with others, shall:

(a) Willfully cause physical injury to any other person, nor threaten to do so for the purpose of compelling or inducing such other person to refrain from any act which he/she has a lawful right to do or to do any act which he/she has a lawful right not to do.

(b) Physically restrain or detain any other person, nor remove such person from any place where he/she is authorized to remain.

(c) Willfully damage or destroy property of the institution or under its jurisdiction, nor remove or use such property without authorization.

(d) Without permission, express or implied, enter into any private office of an administrative officer, member of the faculty, or staff member.

(e) Enter upon and remain in any building or facility for any purpose other than its authorized use or in such manner as to obstruct its authorized use by others.

(f) Without authorization, remain in any building or facility after it is normally closed.

(g) Refuse to leave any building or facility after being required to do so by an authorized administrative officer.

(h) Obstruct the free movement of persons and vehicles in any place to which these rules apply.

(i) Deliberately disrupt or prevent the peaceful and orderly conduct of classes, lectures, and meetings or deliberately interfere with the freedom of any person to express his/her views, including invited speakers.

(i) Knowingly have in his/her possession upon any premises to which these rules apply, any rifle, shotgun, pistol, revolver, or other firearm or

weapon without the written authorization of the chief administrative officer whether or not a license to possess the same has been issued to such a person.

(k) Willfully incite others to commit any of the acts herein prohibited with specific intent to procure them to do so.

4. Freedom of Speech and Assembly: Picketing and Demonstrations.

(a) No student, faculty, or other staff member or authorized visitor shall be subject to any limitation or penalty solely for the expression of his/her views nor for having assembled with others for such purpose. Peaceful picketing and other orderly demonstrations in public areas of ground and building will not be interfered with. Those involved in picketing and demonstrations may not, however, engage in specific conduct in violation of the provisions of the preceding section.

(b) In order to afford maximum protection to the participants and to the institutional community, each state-operated institution of the State University shall promptly adopt and promulgate, and thereafter continue in effect as revised from time to time, procedures appropriate to such institutions for the giving of reasonable advance notice to such institution of any planned assembly, picketing, or demonstration upon the grounds of such institution, its proposed locale and intended purpose, provided however, that the giving of such notice shall not be made a condition precedent to any such assembly, picketing, or demonstration, and provided further, that this provision shall not supersede nor preclude the procedures in effect at such institution for obtaining permission to use the facilities thereof.

 Penalties. A person who shall violate any of the provisions of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall:

(a) If he/she is a licensee or invitee, have his/her authorization to remain upon the campus or other property withdrawn and shall be directed to leave the premises. In the event of his/her failure to do so, he/she shall be subject to ejection.

(b) If he/she is a trespasser or visitor without specific license or invitation, be subject to ejection.

(c) If he/she is a student, be subject to expulsion or such lesser disciplinary action as the facts of the case may warrant, including suspension, probation, loss of privileges, reprimand, or warning.

(d) If he/she is a faculty member having a term or continuing appointment, be guilty of misconduct and be subject to dismissal or termination of his/her employment or such lesser disciplinary action as the facts may warrant including suspension without pay or censure.

(e) If he/she is a staff member in the classified service of the civil service, described in Section 75 of the Civil Service Law, be guilty of misconduct, and be subject to the penalties prescribed in said section.

(f) If he/she is a staff member other than one described in subdivisions (d) and (e), be subject to dismissal, suspension without pay, or censure.

6. Procedure.

(a) The chief administrative officer or his/her designee shall inform any licensee or invitee who shall violate any provisions of these rules (or of the rules of any individual institution supplementing or implementing these rules) that his/her license or invitation is withdrawn and shall direct hiis/her to leave the campus or other property of the institution. In the event of his/her failure or refusal to do so, such officer shall cause his/her ejection from such campus or property.

(b) In the case of any other violator, who is neither a student nor faculty or other staff member, the chief administrative officer or his/her designee shall inform him/her that he/she is not authorized to remain on the campus or other property of the institution and direct him/her to leave such premises. In the event of his/her failure or refusal to do so, such officer shall cause his/her ejection from such campus or property. Nothing in this subdivision shall be construed to authorize the presence of any such person at any time prior to such violation nor to affect his/her liability to prosecution for trespass or loitering as prescribed in the Penal Law.

(c) In the case of a student, charges for violation of any of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be presented and shall be heard and determined in the manner hereinafter provided in Section 9 of this Part.

(d) In the case of a faculty member having a continuing or term appointment, charges of misconduct in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be made, heard and determined in accordance with Title D of part 138 of the Policies of the Board of Trustees. (e) In the case of any staff member who holds a position in the classified civil service, described in Section 75 of the Civil Service Law, charges of misconduct in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be made, heard and determined as prescribed in that section.

(9 Any other faculty or staff member who shall violate any provision of these rules (or of the rules of any individual institution supplementing or implementing these rules) shall be dismissed, suspended, or censured by the appointing authority prescribed in the Policies of the Board of Trustees.

7. Enforcement Program.

(a) The chief administrative officer shall be responsible for the enforcement of these rules (or of the rules of any individual institution supplementing or implementing these rules) and he/she shall designate the other administrative officers who are authorized to take action in accordance with such rules when required or appropriate to carry them into effect.

(b) It is not intended by any provision herein to curtail the rights of students, faculty, or staff to be heard upon any matter affecting them in their relations with the institution. In the case of any apparent violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) by such persons, which, in the judgment of the chief administrative officer or his/her designee, does not pose any immediate threat of injury to person or property, such officer may make reasonable effort to learn the cause of the conduct in question and to persuade those engaged therein to desist and to resort to permissible methods for the resolution of any issues which may be presented. In doing so, such officer shall warn such persons of the consequences of persistence in the prohibited conduct, including their ejection from any premises of the institution where their continued presence and conduct is in violation of these rules (or of the rules of any individual institution supplementing or implementing these rules).

(c) In any case where violation of these rules (or of the rules of any individual institution supplementing or implementing these rules) does not cease after such warning and in other cases of willful violation of such rules, the chief administrative officer or his/her designee shall cause the ejection of the violator from any premises which he/she occupies in such violation and shall initiate disciplinary action as hereinbefore provided.

(d) The chief administrative officer or his/her designee may apply to the public authorities for any aid which he/she deems necessary in causing the ejection of any violator of these rules (or of the rules of any individual institution supplementing or implementing these rules) and he/she may request the State University counsel to apply to any court of appropriate jurisdiction for an injunction to restrain the violation or threatened violation of such rules.

- 8. Communication. In matters of the sort to which these rules are addressed, full and prompt communication among all components of the institutional community, faculty, students, and administration, is highly desirable. To the extent that time and circumstances permit, such communication should precede the exercise of the authority, discretion, and responsibilities granted and imposed in these rules. To these ends each state-operated institution of the State University shall employ such procedures and means, formal and informal, as will promote such communication.
- 9. Notice, Hearing and Determination of Charges Against Students.

(a) The term "chief administrative officer," as used in these rules, shall be deemed to mean and include any person authorized to exercise the powers of that office during a vacancy therein or during the absence or disability of the incumbent and for purposes of this section shall also include any designee appointed by said officer.

(b) Whenever a complaint is made to the chief administrative officer of any state-operated institution of the University of a violation by a student or students of the rules prescribed in this Part (or of any rules adopted by an individual institution supplementing or implementing such rules) or whenever he/she has knowledge that such a violation may have occurred, he/she shall cause an investigation to be made and the statements of the complainants, if any, and of other persons having knowledge of the facts reduced to writing. If he/she is satisfied from such investigation and statements that there is reasonable ground to believe that there has been such a violation, he/she shall prepare or cause to be prepared charges against the student or students alleged to have committed such violation which shall state the provision prescribing the offense and shall specify the ultimate facts alleged to constitute such offense.

(c) Such charges shall be in writing and shall be served on the student or students named therein by delivering the same to his/her or them personally, if possible, or, if not, by mailing a copy of such charges by registered mail to such student or students at his/her or their usual place or places of abode while attending college and also to his/her or their home address or addresses, if different.

(d) The notice of charges so served shall fix a date for hearing thereon not less than 10 nor more than 15 days from the date of service which shall be the date of mailing where necessary to effect service by mail. Failure to appear in response to the charges on the date fixed for hearing, unless there has been a continuance for good cause shown, shall be deemed to be an admission of the facts stated in such charges and shall warrant such action as may then be appropriate thereon. Before taking such action the Hearing Committee, hereinafter referred to, shall give notice to any student, who has failed to appear, in the manner prescribed in paragraph (c), of its proposed findings and recommendations to be submitted to the chief administrative officer and shall so submit such findings and recommendations 10 days thereafter unless the student has meanwhile shown good cause for his/her failure to appear, in which case a date for hearing shall be fixed.

(e) Upon demand at any time before or at the hearing the student charged or his/her representative, duly designated, shall be furnished a copy of the statements taken by the chief administrative officer in relation to such charges and with the names of any other witnesses who will be produced at the hearing in support of the charges, provided, however, that this shall not preclude the testimony of witnesses who were unknown at the time of such demand.

(f) The chief administrative officer may, upon the service of charges, suspend the student named therein from all or any part of the institution's premises or facilities, pending the hearing and determination thereof, whenever, in hisher judgment, the continued presence of such student would constitute a clear danger to himself/herself or to the safety of persons or property on the premises of the institution or would pose an immediate threat of disruptive interference with the normal conduct of the institution's activities and functions, provided, however, that the chief administrative officer shall grant an immediate hearing on request of any student so suspended with respect to the basis for such suspension.

(g) There shall be constituted at each state-operated institution a Hearing Committee to hear charges against students of violation of the rules for maintenance of public order prescribed by or referred to in this Part. Such committee shall consist of three members of the administrative staff and three members of the faculty, designated by the chief administrative officer, and three students who shall be designated by the members named by the chief administrative officer. Each such member shall serve until his/her successor or replacement has been designated. No member of the committee shall serve in any case where he/she is a witness or is or has been directly involved in the events upon which the charges are based. In order to provide for cases where there may be such a disqualification and for cases of absence or disability, the chief administrative officer shall designate an alternate member of the administrative staff and an alternate member of the faculty, and his/her principal designees shall designate an alternate student member, to serve in such cases. Any five members of the committee may conduct hearings and make findings and recommendations as hereinafter provided. At any institution where the chief administrative officer determines that the number of hearings which will be required to be held is, or may be, so great that they cannot otherwise be disposed of with reasonable speed, he/she may determine that the Hearing Committee shall consist of six members of the administrative staff and six members of the faculty to be designated by his/her and of six students who shall be designated by the members so designated by his/her In such event the chief administrative officer shall designate one of such members as chairperson who may divide the membership of the committee into three divisions each to consist of two members of the administrative staff, two faculty members, and two students and may assign charges among such divisions for hearing. Any four members of each such division may conduct hearings and make recommendations as hereinafter provided.

(h) The Hearing Committee shall not be bound by the technical rules of evidence but may hear or receive any testimony or evidence which is relevant and material to the issues presented by the charges and which will contribute to a full and fair consideration thereof and determination thereon. A student against whom the charges are made may appear by and with representatives of his/her choice. He/she may confront and examine witnesses against him/her and may produce witnesses and documentary evidence in his/her own behalf. There may be present at the hearing: the student charged and his/her representatives and witnesses; other witnesses; representatives of the institutional administration; and, unless the student shall request a closed hearing, such other members of the institutional community or other persons, or both, as may be admitted by the Hearing Committee. A transcript of the proceedings shall be made. (i) Within 20 days after the close of a hearing the Hearing Committee shall submit a report of its findings of fact and recommendations for disposition of the charges to the chief administrative officer, together with a transcript of the proceedings, and shall at the same time transmit a copy of its report to the student concerned or his/her representative. Within 10 days thereafter the chief administrative officer shall make his/her determination thereon. Final authority to dismiss the charges or to determine the guilt of those against whom they are made and to expel, suspend, or otherwise discipline them shall be vested in the chief administrative officer. If he/she shall reject the findings of the Hearing Committee in whole or in part he/she shall make new findings which must be based on substantial evidence in the record and shall include them in the notice of his/her final determination which shall be served to the student or students with respect to whom it is made.

NEW YORK STATE EDUCATION DEPARTMENT POSTSECONDARY COMPLAINT NOTICE

Please note that the State University at Fredonia administers internal procedures to receive, investigate and resolve student complaints concerning requirements established in this catalog. Informal and formal means by which students can seek redress of grievances are identified through this document. Students are assured of a reasonable and appropriate time frame for investigating and resolving a formal complaint, that final determination of each formal complaint will be made by a person or persons not directly involved in the alleged problem, and that assurances that no adverse action will be taken against a student filing a complaint and that notice to students about the state consumer complaint process has been made.

Informal and formal complaints should be initiated in the appropriate departments. In the absence of a timely response or resolution; a student should contact one of the following offices:

Office of the Vice President for Academic Affairs, 8th floor, Maytum Hall (Ext. 3335)

Office of the Vice President for Student Affairs, 6th floor, Maytum Hall (Ext. 3271)

Office of the Vice President for Administration, 5th floor, Maytum Hall (Ext. 3109)

Office of Human Resources, 5th floor, Maytum Hall (Ext. 3434)

In addition, in New York State, a complaint may be filed by any person with reason to believe that an institution has acted contrary to its published standards or that conditions at the institution appear to jeopardize the quality of the institution's instructional programs or the general welfare of its students. Any person who believes he or she has been aggrieved by an institution on or after May 4, 1994, may file a written complaint with the department within three years of the alleged incident.

How to File a Complaint

1. The person should first try to resolve the complaint directly with the institution by following the internal complaint procedures provided by the institution. An institution of higher education is required to publish its internal complaint procedure in a primary information document such as the catalog or student handbook. (The department suggests that the complainant keep copies of all correspondence with the institution.)

2. If a person is unable to resolve the complaint with the institution or believes that the institution has not properly

addressed the concerns, he or she may send a letter or telephone the Postsecondary Complaint Registry to request a complaint form. Please telephone (212) 951-6493 or write to:

New York State Education Department Postsecondary Complaint Registry One Park Avenue, 6th Floor New York, NY 10016

3. The Postsecondary Complaint Registry Form should be completed, signed, and sent to the above address. The completed form should indicate the resolution being sought and any efforts that have been made to resolve the complaint through the institution's internal complaint processes. Copies of all relevant documents should be included.

4. After receiving the completed form, the department will notify the complainant of its receipt and make any necessary request for further information. When appropriate, the department will also advise the institution that a complaint has been made and, when appropriate, the nature of the complaint. The complainant will also be notified of the name of the evaluator assigned to address the specific complaint. The evaluator may contact the complainant for additional information.

5. The department will make every effort to address and resolve complaints within 90 days from receipt of the complaint form.

Complaint Resolution

Some complaints may fall within the jurisdiction of an agency or organization other than the State Education Department. These complaints will be referred to the entity with appropriate jurisdiction. When a complaint concerns a matter that falls solely within the jurisdiction of the institution of higher education, the complainant will be notified and the department will refer the complaint to the institution in question and request that the matter receive a review and response.

Upon conclusion of the department's complaint review or upon a disposition of the complaint by referral to another agency or organization, or to the institution of higher education, the department will issue a written notice to the complainant describing the resolution of the complaint. The complainant may contact the department evaluator directly for follow-up information or for additional assistance.

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