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Graduate Catalog 1999 - 2001

— State University of New York College at Fredonia —

# State University of New York College at Fredonia

## 1999-2001 Graduate Catalog

**CollegeSource**

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The State University of New York College at Fredonia is prepared to respond to the needs of students with disabilities. For specific information about services and facilities for the disabled, contact:

Liza N. Smith  
*Coordinator of Disabled Student Support Services*  
102C Hendrix Hall  
(716) 673-3270

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The State University of New York College at 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, 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.

Additionally, discrimination on the basis of sexual orientation in the provision of any services or benefits by state agencies and in any matter relating to employment is prohibited by the Governor's Executive Order No. 28. The policy of the State University of New York Board of Trustees also requires that personal preferences of individuals which are unrelated to performance such as sexual orientation shall provide no basis for judgment of such individuals.

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

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Information in this catalog is accurate as of January 1, 1999. However, **all information is subject to change**. Updated information may be obtained from the Office of Admissions, State University of New York College at Fredonia, Fredonia, NY, 14063. For additional admissions information, call (716) 673-3251 or toll-free at 1-800-252-1212, or consult the college's World Wide Web site at: [www.fredonia.edu](http://www.fredonia.edu)

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 College at Fredonia **Graduate Catalog** is published by the Office of College Publication Services.

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## ACCREDITATION

SUNY Fredonia is fully accredited by:

- Board of Regents of the University of the State of New York
- Middle States Association
- National Association of the Schools of Music
- Council on Academic Accreditation of the American Speech-Language Hearing Association

College Calendar . . . . .	4	Support Services	
The Graduate Program		Information Technology . . . . .	19
The Graduate Faculty . . . . .	5	Reed Library . . . . .	20
The Graduate Council . . . . .	5	Henry C. Youngerman Center . . . . .	20
Admission to Graduate Study . . . . .	5	The Learning Center . . . . .	20
Summer Sessions at Fredonia . . . . .	6	The Fredonia College Foundation . . . . .	21
Good Academic Standing . . . . .	6	Degrees Offered and HEGIS Codes . . . . .	22
Graduate Degree Requirements . . . . .	6	Curriculum Codes . . . . .	22
Thesis and Comprehensive Examination . . . . .	6	Curricular Requirements and	
Advisement and Registration . . . . .	7	Courses of Instruction	
Completion of a Degree Program . . . . .	7	Art . . . . .	23
Residence Credit . . . . .	7	Biology . . . . .	23
Transfer of Credit . . . . .	7	Chemistry . . . . .	25
Certification . . . . .	7	Education . . . . .	26
Academic Credit and Course Load . . . . .	8	English . . . . .	32
Graduate Course Numbers . . . . .	8	Foreign Languages and Literatures . . . . .	34
Full and Part-Time Status . . . . .	8	Geosciences . . . . .	34
Grading System . . . . .	8	Interdisciplinary Studies . . . . .	34
Schedule Changes . . . . .	8	Mathematics . . . . .	35
Withdrawal . . . . .	8	Music . . . . .	37
Student Appeals of Grades . . . . .	9	Physics . . . . .	41
Confidential Records . . . . .	9	Psychology . . . . .	42
Program Registration . . . . .	9	Sociology/Anthropology . . . . .	42
Academic Policy and Procedures in		Speech Pathology and Audiology . . . . .	42
Regard to Students with Disabilities . . . . .	9	Theatre and Dance . . . . .	44
Statement in Celebration of Diversity . . . . .	10	State University of New York	
Financial Aid . . . . .	10	SUNY General Statement . . . . .	46
Assistantships/Fellowships . . . . .	11	SUNY Units . . . . .	47
Graduate Tuition and Fees . . . . .	12	Board of Trustees . . . . .	48
Food Service . . . . .	12	State University College at Fredonia	
ID Cards . . . . .	12	College Council . . . . .	48
Health Insurance . . . . .	12	College Foundation . . . . .	48
Student Services and Program Charge . . . . .	12	Alumni Association . . . . .	48
Billing Procedures & Payment Requirements . . . . .	13	Administration . . . . .	49
General Information		The Graduate Council . . . . .	52
The College . . . . .	16	Faculty . . . . .	52
The Community . . . . .	16	Index . . . . .	60
The Campus . . . . .	17		
Career Development Office . . . . .	17		
Office of Multicultural Affairs . . . . .	18		
Veterans Affairs . . . . .	18		
Auto Use . . . . .	18		
Housing/Residence Life . . . . .	18		

# COLLEGE CALENDAR 1999-2001

## 1999-2000 FALL

Aug. 23 (M)	Registration
Aug. 24 (Tues.)	First Day of Classes
Sept. 6 (M)	Labor Day Break
Sept. 17 (F)	Final Day to Apply for Dec. Graduation
Oct. 7-8 (Thurs.-F)	October Break
Nov. 22-26 (M-F)	Thanksgiving Break
Dec. 10 (F)	Last Day of Classes
Dec. 13-17 (M-F)	Exams

## SPRING

Jan. 19 (W)	Registration
Jan. 20 (Thurs.)	First Day of Classes
Feb. 25 (F)	Final Day to Apply for May Graduation
March 20-24 (M-F)	No Classes - Spring Break
April 24 (M)	No Classes - Travel Day
May 5 (F)	Last Day of Classes
May 8-12 (M-F)	Exams
May 13 (Sat.)	Commencement

## 2000-2001 FALL

Aug. 28 (M)
Aug. 29 (Tues.)
Sept. 4 (M)
Sept. 22 (F)
Oct. 12-13 (Thurs.-F)
Nov. 20-24 (M-F)
Dec. 15 (F)
Dec. 18-22 (M-F)

## SPRING

Jan. 17 (W)
Jan. 18 (Thurs.)
Feb. 23 (F)
March 19-23 (M-F)
April 16 (M)
May 4 (F)
May 7-11 (M-F)
May 12 (Sat.)

## THE GRADUATE PROGRAM

The State University of New York College 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. Permanent certification to teach in the public schools of New York may be secured concurrently with the master's degree if the student follows the appropriate 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 afternoon and evening 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 11 members, representing the departments which have graduate programs, two elected members from the faculty-at-large, one graduate student appointed by the Student Association, and the Graduate Dean.

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 courses; to develop standards for admission, matriculation and graduation for graduate programs; and to recommend new graduate programs and graduate education policies to Faculty Council and the Vice President for Academic Affairs.

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

Applications should be filed with the Office of Admissions by August 5 for admission to the fall semester, by December 1 for the spring semester, and by the last day to register for courses for summer session for the summer sessions. Students may be admitted into a degree program or as non-degree students.

Exceptions to these admission guidelines may be found in selected academic departments, i.e. the Department of Speech Pathology and Audiology has a November 1 application deadline for spring and January 1 deadline for the following summer or fall semesters. It is important to contact the particular departments for any additional requirements for admission.

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 Office of Admissions and approved by the chairperson of the desired department or 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, for applicants to degree programs.

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 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, please contact the Summer Session Information Center at (716) 673-3177.

### 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 which make it impossible for a student to regain the required academic average at the end of one semester. Under those circumstances, the student may appeal the required withdrawal, with the support of his or her advisor and the chairperson of the major department.

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.

3. Recommendation of the department in which the student is majoring.

4. Fulfillment of residence requirements as explained below.

5. Application for the degree filed with the Registrar at least three months prior to the expected date of completion of degree requirements.

A candidate for the master's degree must have completed at least 15 semester hours of graduate work in residence. 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.

A maximum of 15 hours credit 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.

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 advisor should approve the student's overall program and sign the necessary registration and program forms. The student should consult the advisor regularly to discuss the progress of his or her studies.

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. The committee is 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.

All graduate students are encouraged to pre-register during the time periods listed in the college calendar. Pre-registration greatly facilitates the formal registration process and helps to insure that the student secures the schedule desired. 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 the 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

Master's degree programs leading to permanent 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, 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. A master's degree program offered in Reading will lead to provisional certification.

The Application for Certification should be filed with the Office of the Registrar four months before the expected completion of requirements.

The general requirements for a permanent 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.

As a result of increasing enrollment, the School of Education has declared a moratorium on entrance for non-degree certification students in elementary and secondary education. The only exception to this moratorium is in music certification by special permission from the School of Music. Students seeking certification may enroll in a second baccalaureate degree program (30 to 45 credit hours). Information is available in the Office of Admissions.

Any questions or concerns dealing with the process of acquiring certification in these fields of study should be directed to either the Director of the School of Education or Associate Director of 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 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 subject to the requirements for independent study in the department, including 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 also open to qualified undergraduates.

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 hours of 300- or 400-level courses outside the major area of specialization may be included. This action requires the advisor's recommendation, which must be approved by the chairperson of the department in which the student is majoring and by 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.

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 *Undergraduate Catalog*.

### Full and Part-time Status

A graduate student enrolled in at least 12 credit hours of course work is considered a full-time student. A graduate assistant registered for at least 6 credit hours of course work is considered a full-time student.

### 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 reserved for courses which 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 U 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. As class schedule changes are processed, students receive copies which should be retained as a matter of personal record.

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. Those courses dropped will be removed from the student's permanent record.

A fee of \$15 will be assessed for each course added after the third week of classes. This includes transactions involving a switch from one section to another.

### Withdrawal

Beginning with the second week to the seventh full week of the semester, a student may withdraw from a course by having the instructor assign a grade of "WP" if the student is passing at that time, "WE" if failing, or "WX" if no grade can be determined. The withdrawal grades 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 and withdrawal period are given in the college calendar and in the appropriate *Course Offerings Bulletin* and apply to all full-semester courses.

The college reserves the right to require any student who is not maintaining minimum academic standards or making reasonably satisfactory progress to withdraw.

### Student Appeals of Grades

A student who feels that a course grade or other grade reported for 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, 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 major 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.

### 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. Students who are not certain whether a particular practice may be considered plagiaristic should 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, see page 203 of the *Undergraduate Catalog*.

### Confidential Records

All official records of the college, including those in the Graduate Studies Office, the Registrar's Office, the Office of Student Affairs, and the Career Development Office are considered confidential and may be released only with the written consent of the student or upon the formal request of a duly authorized legal authority. Normally, the college will disclose whether or not an individual is now or has been enrolled as a student at the college. For more detailed information about confidential records as defined by the Family Educational Rights and Privacy Act of 1974, see page 206 of the *Undergraduate Catalog*.

### Program Registration

The college'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.

### 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 the otherwise qualified students 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 the student to identify him/herself as disabled upon entrance to the college, by notifying the Coordinator of Disabled Student Support Services. The student and coordinator will meet and discuss the students' needs, on the basis of the clinical diagnosis that has established the existence of the disability, and will decide on the kinds of assistance most necessary to the student. 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 Disabled Student Support Services office at the start of each semester. Since student needs might change each semester, the Disabled Student Support Services office

must be notified of students' schedules and academic needs.

With the student's written permission, the coordinator will inform the relevant professor(s) of the student's disability on either a semester or 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 which are requested. If mutually agreeable adjustments cannot be made, the Coordinator of Disabled Student Support Services 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.

#### 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. As described in the *Tapestry* publication, "(t)he vision of multicultural equality affirms the uniqueness and worth of each person as an integral part of the beautiful tapestry of life, and the need of human beings to live together in community."

All members of the campus community are expected to live, learn, and work with a foundation of understanding and appreciation of differences. The college has pledged to ensure that everyone is treated fairly, regardless of race, religion, ethnicity, gender, sexual preference, physical/mental challenge, or other characteristics not germane to a person's rights or human worth. Faculty and staff, as mentors and educators, are expected to support and demonstrate their understanding of this policy through their daily personal interactions.

#### Financial Aid

Financial aid information can be obtained by visiting the office's web site at [www.fredonia.edu/finaid](http://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 in attendance or accepted 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 has a preprinted Fredonia loan application mailed directly to the student by the New York State Higher Education Services Corp. (NYSHESC).

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 4 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 just prior to the spring semester).

### Satisfactory Academic Progress

**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 Satisfactory Academic Progress). 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 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 progress standards were not met and will also apprise the student of the appeal procedure to follow if the student feels financial aid should be reinstated.

**Appeal 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 by the Office of Student Affairs and the Director of Financial Aid *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 (3176 Mason 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 are generally \$5,500 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 apply directly to the chairperson of the department in which they expect to do their graduate work.

**Minority Graduate Fellowship Program:** This is a competitive program which 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 costs for graduates of Educational Opportunity/Higher Educa-

tional Opportunity programs. (See Graduate Opportunity Tuition Waiver, page 11.) For details, please contact the Office of Graduate Studies, (716) 673-3808.

\* Graduate Tuition And Fees

**Tuition**

Full-time, per semester:

New York State Resident	\$2,550
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Out-of-State Resident	\$4,208
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Part-time, per credit hour:

New York State Resident	\$213
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Out-of-State Resident	\$351
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**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.

**Fees**

College Fee:

Full-time student	\$12.50 per semester
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Part-time student	\$0.85 per credit hour
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Student Services and Program Charge:

Full-time student	\$350 per semester
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Part-time student	\$29.25 per credit hour
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\* 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/](http://www.fredonia.edu/admin/studentaccounts/)

**Food Service**

College policy requires all on-campus residents to select Meal Plans 1, 2, 3, or 4 if they are residing in non-apartment style residence halls. Seniors, Hendrix and Igoe hall residents and residents of Disney and Eisenhower apartments are not required to maintain a meal plan, however, they may choose any plan. More information can be obtained through the FSA office in Gregory Hall at (716) 673-3417.

**ID Cards**

A college ID card is required of all enrolled Fredonia students. These cards are issued at no charge by the FSA office when a student begins his/her studies at Fredonia. 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.

**Health Insurance**

All students are strongly urged to take Student Health Insurance unless covered by comparable insurance. The health insurance covers a major portion of hospitalization costs not provided through the Student Health Center. For further information, contact the Office of Student Affairs.

**Student Services and Program Charge**

The Student Services and Program Charge consolidates fees for student services, programs and activities in one composite amount for all students. There are no additional general 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
- Alumni Affairs
- Art Forum
- Bicycle 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 Events Commission
- College Special Events
- Counseling Center
- Coupons for Discounts at Area Merchants
- Cross Country Skis at College Lodge
- Fredonia College Jazz Workshop
- Intercollegiate Athletic Sports Programs
- 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 Local Hospital/Clinic  
 Fredonia Radio Systems  
 WNYF-TV

#### Miscellaneous Fees, Fines or Deposits

All of the major college expenses have been outlined. However, the State University authorizes charges for such items as returned checks, late registration, re-billing, and drop/add fees. Fines are authorized for parking violations and the late return or loss of library materials, failure to return physical education or infirmary equipment, and charges also for breakage deposits in some laboratory courses. All fees are subject to change.

## 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 (5) 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 the Student Services and Program Charge. Optional charges for Residence Hall Room Rental and Food Service may also be included on the bill. A deduction from the total billed amount is made for the 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 which may be used as deferments against college charges include:

- Tuition Assistance Program (TAP Awards)
- Stafford Student Loans
- Veteran's benefits
- Private Scholarships (only when they are payable directly to the college)
- Academic Management Services (AMS)
- Alternative Student Loans

### Payment Requirements and Distribution of Financial Aid

Full payment less approved, deferrable financial aid and prepayments must be made in order to complete Mail Registration. Cash, personal checks, money orders, VISA, MasterCard and Discover are all acceptable forms of payment. Registrations lacking the required payment cannot be processed.

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.

Financial aid is not distributed until the end of the first week of the semester when students' registration status is verified. The majority of financial aid is distributed during the third and fourth week of classes. Tuition Assistance Program (TAP) awards 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 the next business day (may be somewhat later at the beginning of the semester). Checks which are not picked up in the Office of Student Accounts are mailed to home addresses.

### Failure To Pay College Charges

Due to changes in a student's registration status, dormitory residency, 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 fee 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. Students whose names appear on the "hold" list will not receive grades at the end of a semester, receive their diploma at graduation, be permitted to register for additional semesters at Fredonia, or receive a copy of their college transcript.

A student who fails to make payment to the college at the end of the semester will be referred for further collection to either the New York State Attorney General's Office in Albany or a collection agency contracted with the college. Accounts transferred to these agencies will be subject to additional interest charges and collection costs of up to 22 percent.

## State University Refund Policies

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 the approval of the College President or his/her designee.

*Tuition* - A student withdrawing during the semester is eligible for the following tuition refunds:

100 percent for withdrawal during the first week of classes;

70 percent for withdrawal during the second week of classes;

50 percent for withdrawal during the third week of classes;

30 percent for withdrawal during the fourth week of classes;

0 percent 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.

The *Student Services and Program Charge* - Refunds 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 hall, no refund may be made except in cases of withdrawal beyond the control of the student and with the approval of the College President and 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 whenever a registered student who is a recipient of Title IV funds discontinues study during a given semester.

The purpose of the refund/repayment calculation is to insure that financial aid monies for which the student is not entitled because he/she has dropped out of school are returned to the federal government.

There are two basic components involved in the discontinuance of study during a semester.

1. *Refund*: The amount to be returned to Federal Title IV Financial Aid Programs and to the student from funds applied against charges made by the institution (tuition and fees, room and board, etc.)

2. *Repayment*: The amount students must repay to Federal Title IV Financial Aid Programs resulting from excess disbursement of funds to students for non-institutional educational costs (off-campus rent, board, transportation, personal expenses, etc.).

The university is mandated to calculate the amount of both the refund and the repayment of financial aid funds within 30 days of when study is discontinued. The amounts are calculated as indicated below.

**NOTE:** If a student withdraws *before* attending any classes for a semester, all aid for that semester must be canceled and returned to the various financial aid programs. No consideration will be given for off-campus room expenses or books.

### Calculation of Refund:

The Higher Education Amendments of 1992 established a "fair and equitable refund policy" as the one that provides for a refund of at least the largest amount paid back to the aid program when comparing the following refund policies.

#### 1. SUNY Fredonia Refund Policy

A. *Tuition*: Students who receive permission to cancel their registration (withdraw) for fall or spring semesters may be eligible for a refund of tuition and fees in accordance with the following schedule:

1st week	100%
2nd week	70%
3rd week	50%
4th week	30%

B. *Room and Food Service*: Students may be eligible for a refund of room rental and food service in accordance with the State University of New York College at Fredonia Policy.

#### 2. Pro Rata Refund Policy

Students attending the State University of New York College at Fredonia for the first time (first semester freshmen or transfers) who receive Title IV aid and officially withdraw from the institution will have a refund calculated for tuition, fees, room rental, and food services in accordance with the following:

1st week	100%
2nd week	90%

3rd week	80%
4th week	80%
5th week	70%
6th week	60%
7th week	60%
8th week	50%
9th week	40%
10th week	0%

### 3. Federal Refund Policy

Students attending the State University of New York College at Fredonia who receive Title IV aid and withdraw from the institution will have a refund calculated for fees, room rental, and food services in accordance with the following (tuition will be calculated in accordance with the SUNY Fredonia Refund Policy):

1st week	90%
2nd week	90%
3rd week	50%
4th week	50%
5th week	25%
6th week	25%
7th week	25%
8th week	25%
9th week	0%

#### Distribution of Refund Among Financial Aid Programs

The amount of the calculated refund will be distributed in the order of the individual aid programs as shown below:

Unsubsidized Federal Stafford Loan  
 Subsidized Federal Stafford Loan  
 Federal Plus Loan  
 Other Title IV Aid Programs  
 Other federal, state, private or institutional aid

#### Calculation of Repayment

1. The portion of the semester in which the student was enrolled and the reasonable non-institutional expenses for that period must be determined. Reasonable non-institutional expenses are calculated as follows:

*Books and Supplies:* Full semester amount if student attended any classes, as these expenses are usually incurred in full at the very beginning of the semester.

*Room, Board, Personal Expenses and Transportation:* Prorated by the number of weeks attended. Again proration is similar to tuition (e.g. first week, 0% assessed).

2. The source of cash disbursed to the student for non-institutional expenses including college work study pro-

gram, Stafford Loans, or Parents Loans is used to determine refund.

3. Reasonable expenses incurred (Item #1) are subtracted from total cash disbursed to student for non-institutional expenses excluding work programs, Stafford Loans, and PLUS (Item #2). If this amount is positive, then this is the amount of the overpayment, a portion of which must be repaid by the student to the Federal Aid Program.

#### Distribution of Repayment Among Financial Aid Programs

The amount of the calculated repayment will be distributed in the order of the individual aid programs, as shown below:

Title IV Aid Programs  
 Other federal, state, private or institutional aid

Students will be notified via mail regarding the outcome of the refund/overpayment calculation.

Discontinuance of study during a semester will either require a refund of aid to specific aid programs based on the policy outlined in this section or (if no refund required from current semester) will require loss of state aid, federal aid, or both due to Satisfactory Academic Progress requirements for the very next semester as outlined in the *Graduate Catalog*, the Financial Aid Office *Prospectus*, and the Financial Aid Office Satisfactory Academic Progress brochure.



## GENERAL INFORMATION

Graduate students may attend all campus activities including special lectures and concerts. The Student Activity 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.

### The College

The State University of New York College at Fredonia, with its rich tradition of teaching and learning, is a leading university college. The college offers a wide variety of majors in the arts, humanities, and the natural and social sciences, as well as professional programs in many areas. Its undergraduate curriculum is strengthened by the nationally-recognized General College Program, a core of liberal education studies required of all students.

In its most recent list of "America's Best Colleges," *U.S. News and World Report* ranked Fredonia the seventh best regional public university in the north, and *Kiplinger's Personal Finance Magazine* named Fredonia in its listing of the Top 100 Public College and University values in the U.S. In the most recent Student Opinion Survey administered throughout SUNY by the American College Testing service, current students rated Fredonia the highest of the participating university colleges in several key areas. Ranked first for student satisfaction were classroom facilities, study areas, the general condition of buildings and grounds, cultural arts programs, and opportunities for personal involvement. Also rated highly were new student orientation services, campus tutoring services, the condition of residence halls, residence hall services and programs, personal counseling services, concern for students and individuals, and personal security/safety on campus.

Outstanding faculty in all areas are committed to providing quality education to students through classroom teaching, and research and performance opportunities. The college is well represented with more than its share of those recognized by SUNY as Distinguished Teaching Professors, Distinguished Service Professors and recipients of Chancellor's Awards for Excellence in Teaching, Librarianship and Professional Service. Accessibility to faculty creates an open atmosphere, and small class sizes reflect the college's dedication to excellence. The warmth and caring nurtured by the college's faculty and professional staff is an attraction as strong as its fine academic reputation.

Students attending Fredonia represent all areas of New York State, as well as out-of-state. Foreign students visiting the college enrich the lives of the campus population, and many students choose to participate in study abroad programs in England, Europe, and Latin America.

The school 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.

As noted in its mission statement, SUNY Fredonia seeks to provide the best possible education for its students, to contribute to knowledge and the solution of significant problems through its research, and to serve the people of New York State and the nation. Many graduates have distinguished themselves nationally and internationally as scholars, artists, and scientists.

### The Community

The college campus is very accessible, located within the village of Fredonia in the heart of northern Chautauqua County at Exit 59 of the New York State Thruway, about 40 miles south of Buffalo, N.Y. This largely residential village is distinguished by beautiful tree-lined avenues, the warmth of its citizens, and a deeply-rooted history. The neighboring city of Dunkirk is located on the shores of beautiful Lake Erie.

The Chautauqua County area has a number of attractions available to its residents and visitors year-round. Lake Erie offers opportunities for swimming and boating during the summer, and nearby ski centers beckon during the winter months. Nationally-known Chautauqua Institution provides a wealth of plays, operas, concerts, and lectures during the summer months, which along with cultural events at SUNY Fredonia sustain a wonderful atmosphere of creativity throughout the seasons.

The Ontario, Canada city of Toronto is just a few hours away by car, and nearby Buffalo boasts such fine facilities as the nationally-known Albright-Knox Art Gallery, Kleinhans Music Hall, home of the Buffalo Philharmonic Orchestra; and Ralph Wilson Stadium, home of the Buffalo Bills. The Bills have made Fredonia the site of its summer training camp since 1981.

Western New York, and specifically Chautauqua County, with its rolling hills which reflect the beautiful seasons, is a wonderful setting for the college.

## The Campus

The 266-acre campus of SUNY Fredonia is striking in its beauty and design. A traditional brick perimeter encloses a modern sculptured core of buildings including designs by the internationally-known architect I.M. Pei. 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 are 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 a residence hall with a body conditioning area; an aerobics center; and computer labs and other special interest areas. **Hendrix Hall** is the site of the college's Learning Center and 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. **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 life, houses the offices of Campus Life and the Student Association, and several major student organizations and publications. 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, gymnasiums, the Blue Devil Fitness Center, dance studio, and racquetball courts. Adjacent to this building is **Steele Hall**, which contains an indoor ice skating rink and track/basketball arena.

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, the 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**, designed by I.M. Pei and named in honor of Daniel A. Reed of Sheridan, contains nearly 400,000 volumes as well as music scores, recordings, other media and special collections. 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 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, Office of Grants Administration/Research Services, the Henry C. Youngerman Center for Communication Disorders, and the Media Center, are 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."

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.

## Career Development Office

The Career Development Office offers a number of inter-related services to assist graduate students in investigating various career options and conducting a job search.

### *Outline of Services*

**Individual Counseling.** Students are encouraged to contact the office *early* in their graduate study to meet with a counselor to examine the expectations they may have for their degree program and possible occupations. 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 other quick questions. Current Drop-in Hours are Monday through Thursday from 2 until 4:30 p.m. when classes are in session.

**CDO Online.** Visit the CDO home page at <http://www.fredonia.edu/cdo> to learn more about the office and to find related Internet links.

**Videotaped "Practice" Interviews.** A counselor will conduct a brief interview. The interview will be videotaped, played back and discussed, with suggestions made for improvement.

**Credentials File.** Students in the final year of graduate study are eligible to establish a file which includes a resume, course list, transcript and letters of recommendation which can be sent to prospective employers to support an application.

**Career Guides.** These self-help guides are written on a number of topics related to career choice, job search, resumes and cover letters.

**Job Search Information.** Writing a resume, job search strategies, writing cover letters, and interviewing techniques are covered in books and videotapes.

**Career Information.** Books, magazines, pamphlets, articles and videotapes about careers are arranged for easy browsing. They contain information about work tasks, desired academic background, personal qualities and experiences, salary, hiring organizations, and job market. These materials are also available for overnight sign-out.

**Employer Directories.** Directories containing names and addresses of organizations to contact are arranged by the following categories: geographic location; business and industry; education; health, human services and non-profit; government; and arts and media.

**Job Vacancy Listing.** Vacancies received are posted, compiled weekly for those desiring to receive them by mail, and are accessible electronically through *CDO Online*.

**Recruitment Calendar.** 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, Exploring Business Careers Fair and JobQuest. The Recruitment Calendar, published each semester, includes the dates for these events as well as dates for similar events held in other geographic locations.

**Workshops.** The staff makes presentations on request to student clubs and classes about career options, resume writing, job searching (including Internet searching), and interviewing.

The office is located on the second floor of Gregory Hall and can be reached by phone at (716) 673-3327 or by FAX at (716) 673-3593.

#### Office of Multicultural Affairs

The Office of Multicultural Affairs is dedicated to the premise that all cultural heritages 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, Bisexual Student Union; Gospel Choir; Native American Student Organization; Student Association Diversity Awareness Committee; Solutions; and the Brother to Brother/Sisters Supporting Sisters discussion groups, Multicultural Affairs staff members put on a comprehensive array of programs that address the areas of cultural appreciation, gender equity, homophobia elimination, prejudice reduction, and multicultural harmony.

Additional services provided by the Office of Multicultural Affairs include academic, personal, financial aid, group, and career counseling; student advocacy; leadership development; mentoring programs; and various other campus-wide diversity initiatives. For more information about the Office of Multicultural Affairs, please call (716) 673-3398.

#### Veterans Affairs

The Office of Veterans Affairs, located in 3176 Mason 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 which 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 which 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 Registration week. 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 aca-

demic 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 College at Fredonia, Fredonia, NY 14063.

*Note:* Graduate residence director positions are often available. Please contact the Director of Residence Life for more information.

## SUPPORT SERVICES

College offices 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.

### Information Technology

The college provides a wide range of information technology services for students, faculty and staff. It runs a campus-wide electronic mail system which is accessible from dozens of terminals on campus, from PCs in its computer labs and directly from student-owned computers in dormitory rooms. Fredonia also provides students, faculty and staff with access to the World Wide Web and other Internet services through web browsers on college-owned personal computers, through dial-up graphical web browsing and through direct hardwired links to student rooms in all dormitories.

Access to personal computers is now an essential part of any college education. The college encourages students to purchase their own PCs and bring these with them to 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 Intel-based and Macintosh computers available hardwired to the Internet and host graphical web browsers as well as word processing, 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 Media Arts program also has a multimedia laboratory. The college has 11 technology classrooms which provide faculty access to multimedia technologies for instructional purposes.

Students are encouraged to utilize the Media Center, located at W203 Thompson Hall, which houses speech pathology and audiology materials, a student graphics lab, PC/Mac microcomputers and media equipment to support classroom projects.

Student instruction in computer usage is provided by many academic departments. 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) since 1984. The department manages two other laboratories within Fenton Hall. The CS Lab has three kinds of computers. First is a network of 10 Silicon Graphics Workstations that run the IRIX operating system. Popular languages such as Ada, C++, C, Fortran, Java, OpenGL and other software development utilities are available on these machines. Second is a Microsoft NT-based cluster of 20 Pentium II workstations that run major state-of-the-art Microsoft software packages such as Office 97 and Studio 97. The third is the Linux-based cluster of servers connected to a high-speed network that provides Internet and dial-up services. The machines in the laboratory are accessible from various remote locations across the campus. These facilities are dedicated to supporting instruction in the Computer Science major, as well as the creative and

scholarly activities of faculty and students. The other two laboratories that are managed by Computer Science are primarily instructional laboratories and are open to students taking CS courses. These laboratories mostly house a network of Pentium II workstations that run under Windows NT and 95. Major Microsoft software packages are available on these machines. More information about the Computer Science programs may be obtained from the web site at <http://www.cs.fredonia.edu>.

The Office of Administrative Information Technology is converting administrative record keeping and retrieval from a large scale Unisys A Series enterprise server to Systems and Computer Technologies (SCT) Banner 2000 software using a Digital Alpha 4100. This integrated database will maintain student records for Admissions, Advising, Alumni/Development, Faculty Advising, Financial Aid, General Ledger/Finance, Institutional Studies, Registration, Residence Life and Student Accounts/Receivables.

#### Reed Library

Reed Library plays a key role in the teaching and learning process at Fredonia as students and faculty make heavy use of the nearly 400,000 volumes, more than 1,500 journal subscriptions, and collections of microforms, videotapes, musical scores, records, tapes, and compact discs. Separate areas within the library include the Music Library with its more than 15,000 recordings and 30,000 scores, and the Special Collections room. Special Collections includes 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 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 search strategies. A series of pamphlets and guides to the collections have been prepared to assist students in their use of the library.

Significant physical improvements and technological innovations have been made to the library in recent years. Particularly important are an addition to the library and renovation of the main building, which were completed during 1994. These changes provide more space for library materials as well as varied and comfortable study areas for faculty and students. Reed has an online catalog, PALS, that allows students and faculty to search the library holdings from terminals on site as well as from other locations on and off campus. Students and other users also have access to the World Wide Web from work stations in the library. Other new technology allows

for the use of numerous indexes and databases provided on the Internet through CARL and FirstSearch. Together with the online catalog, these systems have radically improved the way that patrons of the library gain access to information.

Two services are available to students, faculty, and staff who are in need of materials that the library does not own. The interlibrary loan service locates and obtains such materials, and the SUNY Open Access program permits users to borrow materials directly from all other SUNY libraries.

Reed Library is open at the following times during the academic year: Monday through Thursday, 8 a.m. to 11 p.m.; 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 sessions. For more information on Reed Library and its services call (716) 673-3222.

#### 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 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.

The computer SuperLab in the Learning Center provides students with a variety of word processing programs on both Pentium and Power PC platforms. Learning Center tutors are available to assist students with academic work using 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 SuperLab whenever equipment is not required for tutoring or workshops. For more information, visit the Learning Center in Hendrix Hall 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 Disabled Student Services and the Full Opportunity Program.

#### 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 College 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 which 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, as well as gifts in kind, works of art, books, equipment and teaching materials have enabled the college to move forward, even in times of budgetary restraint.

## Degrees Offered

<b>Master of Arts</b>	<b>HEGIS Code</b>
English	1501
Mathematics	1701
Interdisciplinary Studies	4901
<b>Master of Music</b>	
Music Education K-12	0832
Music Performance	1004
Music Theory - Composition	1004.10
<b>Master of Science</b>	
Biology	0401
Chemistry	1905
Interdisciplinary Studies	4901
Speech Pathology	1220
<b>Master of Science in Education</b>	
Biology 7-12	0401.01
Chemistry 7-12	1905.01
Elementary Education N-6	0802
English 7-12	1501.01
Mathematics 7-12	1701.01
Reading Teacher	0830
Speech and Hearing Handicapped	0815
<b>Advanced Certificate</b>	
School Administrator and Supervisor	0828

## Curriculum Codes

Graduate Status is indicated by the first number of a three digit code as follows:

- 5XX Accepted in a Provisional Certification program
- 6XX Accepted in a degree program
- 7XX Conditionally accepted in a degree program
- 9XX Accepted as a non-degree student

The last two digits refer to the area of specialization as follows:

- X00 Non-Degree
- † X20 Interdisciplinary Studies (M.A.)
- † X30 Interdisciplinary Studies (M.S.)
- †\*X40 Reading
- †\*X54 El. Ed. - Curriculum and Instruction
- X55 El. Ed. - Unclassified
- †\*X58 Music Education
- \*X60 School Administrator/ Supervisor
- †\*X64 Speech Pathology
- †\*X65 Speech and Hearing Handicapped
- †\*X66 Sec. Ed. - English
- †\*X72 Sec. Ed. - Biology
- †\*X73 Sec. Ed. - Chemistry
- †\*X74 Sec. Ed. - Mathematics
- † X79 Music Theory-Composition
- † X81 L.A.-English
- † X84 Music Performance
- † X92 L.A.-Mathematics
- † X93 L.A.-Biology
- † X94 L.A.-Chemistry

\* Certification program

† Master's program

## GRADUATE STUDIES

This section lists the graduate courses, some offered each semester, some in alternate semesters, and a few either in alternate years or in summer sessions. Check the *Course Offerings Bulletin* for an accurate list of proposed offerings.

## ART

Office: 213 Rockefeller Arts Center  
(716) 673-3537  
E-mail: Art@fredonia.edu  
**Mary Lee Lunde**, *Chairperson*

To the right of each course name will be a letter indicating how often the particular course is offered. The key is as follows:

- A** - Course offered every semester
- B** - Course offered every year
- C** - Course offered every other year
- D** - Course offered on occasion

### THE HISTORY AND THEORY OF ART

#### AR 541-542. Independent Projects **B** in Art History

Independent research in specific area of art history, stressing depth of inquiry. Subject to study chosen in consultation with department.

*1-3 hours credit each semester*

#### AR 545. Seminar in Art History **D** and Criticism

Readings and discussions, reportage and criticism, including role of critic, influence of media, and formation of public attitudes.

*Prerequisite:* permission of department.  
*3 hours credit*

### STUDIO COURSES—THE PRACTICE OF ART

*Note:* The following are based on substantial experience in the field under study. Art department approval should be obtained prior to enrollment. Some of the studio courses listed below require lab fees.

#### AR 551-556. Independent Studio **D** Projects

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.

*Prerequisite:* permission of department.  
*1-3 hours credit*

## BIOLOGY

Office: 203 Jewett Hall  
(716) 673-3282  
E-mail: Biology@fredonia.edu  
**Roger A. Byrne**, *Chairperson*

The Department of Biology offers the Master of Science degree in Biology. The department is well-equipped, with instrumentation available for almost all types of biological research, including recombinant gene technology. Teaching Assistantships and Graduate Internships are available. Faculty research interests include: immunology, developmental biology, microbiology, microbial genetics, plant anatomy, cytology, molecular biology, animal behavior, evolutionary ecology, physiological ecology of aquatic plants and animals, animal physiology, limnology, 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 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.

<i>Thesis Option</i>	<i>Hrs.</i>
1. A minimum of 30 semester hours, including:	
Seminar (three semesters)	3
Thesis Research	6
Appropriate course work	at least 21
2. Written Thesis	
3. Final Comp. Examination	
Total	30

<i>Non-Thesis Option</i>	<i>Hrs.</i>
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 with some concentration in either biochemistry, physiology, or ecology. Specific courses chosen will depend on the student's background and interests. BI 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.

Provisional 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   |   |
| ED 570 Understanding Educational Research   | 3 |
| One course in psychological, historical, philosophical, or comparative foundations of education | 3 |
| One course in pedagogy, methodology, or instruction   | 3 |



2. Area of Certification	
Eighteen credit hours as follows:	
Fifteen or more hours of 500- and 600-level courses in biology or approved courses in related areas	at least 15
Seminar, BI 600 or 601	3
3. Special Project	3
Thesis, independent study project, or 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

In the list of courses below, to the right of each course name will be a 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

**BI 501. Biochemistry** **B**  
 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:* organic chemistry.  
 3 hours credit

**BI 502. Methods in Biochemistry** **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:* BI 501 or permission of instructor.  
 3 hours credit

**BI 510. Tropical Biology** **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.  
 3 hours credit

**BI 517. Comparative Animal Physiology** **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:* BI 336 or permission of instructor.  
 3 hours credit

**BI 520. Population and Community Ecology** **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:* BI 330.  
 3 hours credit

**BI 522. Physiological Ecology** **C**  
 Reading and discussion of primary literature relating to physiological and ecosystem ecology. Topics include resource acquisition, energetics, nutrient cycling, and energy flow.  
*Prerequisite:* BI 330.  
 3 hours credit

**BI 524. Aquatic Biology** **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:* BI 330.  
 3 hours credit

**BI 543. Plant Physiology** **C**  
 Study of the life processes and responses of plants, including water relations and transport, photosynthesis and general metabo-

lism, 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.  
 3 hours credit

**BI 544. Radiation Biology** **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.  
 3 hours credit

**BI 545. Photobiology** **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.  
 3 hours credit

**BI 546. Evolution** **D**  
 Consideration of the theoretical framework of evolutionary biology and the mechanisms of evolution. Special topics include microevolution, macroevolution and coevolution.  
 3 hours credit

**BI 550-551. Current Concepts in Biology** **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, Molecular Genetics, Cell and Hybridoma Culture, Enzymes, Ethology, Hormone Mechanisms, Bioenergetics, Microbial Genetics, Field Biology, and Advanced Developmental Biology, PCR, DNA Synthesis and Immunology.  
 1-3 hours credit each semester

**BI 557. Biostatistics** **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.  
 3 hours credit

**BI 564 Mammalogy** **D**  
 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.  
*3 hours credit*

**BI 600-601. Seminar** **A**  
 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.  
*1 hour credit each semester*

**BI 611. Cell Regulation** **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 or corequisite: BI 501.*  
*3 hours credit*

**BI 646. Reproductive Physiology** **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, viviparity, pregnancy, parturition and lactation, fertility and sterility, and effects of environment and nutrition on reproductive processes.  
*Prerequisite: BI 501.*  
*3 hours credit*

**BI 650-659. Special Topics in Biology** **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.  
*3 hours credit each semester*

**BI 690, 691. Thesis Research** **A**  
*3 hours credit each semester*

## CHEMISTRY

Office: 207 Houghton Hall  
 (716) 673-3281  
 E-mail: Chem@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, including:  |       |    |
| Graduate-level courses in chemistry, 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)   | 18-24 |    |
| 2. Research  | 6-12  |    |
| 3. Seminar (One seminar is expected)   |       |    |
| 4. Evidence, by proficiency examination or completion of study approved in advance by the departmental Graduate Study Committee, of competence in an acceptable foreign language or computer language. Course work used to satisfy this requirement does not count toward the 30 required hours. |       |    |
| 5. Written Thesis  |       |    |
| 6. Final Comprehensive Examination   |       |    |
| Total  |       | 30 |

### Master of Science in Education

*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.

Provisional certification to teach chemistry 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  |  |    |
| ED 570 Understanding Educational Research  |  | 3  |
| One course in the psychological, historical, philosophical, or comparative foundations of education  |  | 3  |
| One course in pedagogy, methodology, or instruction  |  | 3  |
| 2. Area of Certification   |  | 18 |
| Eighteen hours to be selected under departmental advisement from 500- and 600-level offerings in chemistry and related fields, e.g., biology, geosciences, mathematics and physics   |  |    |
| 3. Special Project   |  | 3  |
| Thesis, independent study project, or research project from either professional education or chemistry   |  |    |
| 4. 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 |

In the list of courses below, to the right of each course name will be a 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

**CH 511. Physical Organic Chemistry** **D**  
 Orbital theory, resonance, acid-base theory and mechanisms of organic reactions including unimolecular and bimolecular substitution reactions and intramolecular rearrangements.

*Prerequisites:* one year organic chemistry, one year physical chemistry.

3 hours credit

**CH 512. Advanced Organic Chemistry** **D**

The utilization of certain types of reactions for the synthesis of compounds having significance to organic or bioorganic chemistry. Examples include addition/elimination; oxidation/reduction; free radical; carbanionic; pericyclic; and other types of reactions.

*Prerequisite:* one year organic chemistry.

3 hours credit

**CH 515. Applied Spectroscopy** **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.

*Prerequisite:* one year organic chemistry.

3 hours credit

**CH 521. Advanced Physical Chemistry-Thermodynamics** **D**

Application of theory of thermodynamics to chemical systems, including methods of quantum statistics.

*Prerequisites:* one year physical chemistry, one year calculus.

3 hours credit

**CH 522. Advanced Physical Chemistry - Quantum Chemistry** **D**

Basic concepts of wave mechanics and the application to topics of interest to chemists.

*Prerequisites:* one year physical chemistry, one year calculus, one year physics.

3 hours credit

**CH 562. Advanced Inorganic Chemistry** **B**

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.

3 hours credit

**CH 573. Chemistry and the Environment** **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.

3 hours credit

**CH 581. Special Topics in Chemistry** **B**

Topics of special or current interest offered periodically. Credit and prerequisites vary with nature of course offerings which may include physical inorganic chemistry, organometallic chemistry, spectroscopy, photochemistry, heterocyclic chemistry, synthesis, polymer chemistry, topics in biochemistry, quantum chemistry, computers, or selected topics in chemical education.

1-3 hours credit

**CH 690. Independent Study** **A**

Extensive study on advanced level of chemistry not covered in detail in formal courses. Paper or other demonstration of accomplishment required.

*Prerequisite:* permission of department.

1-3 hours credit

**CH 691-694. Research** **A**

Projects in areas of analytical, physical, organic, inorganic, and biochemistry.

1-3 hours credit each semester

**Seminar** **A**

Preparation and oral presentation of topics of significant interest from recent chemical literature or thesis research. All graduate students must present two seminars; all full-time graduate students are required to attend seminar each semester. A student's final seminar will be based upon his/her thesis research. Seminar is not required in the M.S. in Education program.

## EDUCATION

Office: E268 Thompson Hall  
(716) 673-3311

E-mail: Edu@fredonia.edu

**Julius Gregg Adams, Director**

### \* IMPORTANT NOTIFICATION TO EDUCATION MAJORS

As of July 16, 1998, the New York State Regents have proposed new certification titles for classroom teachers and standards for teacher education programs. Due to the transitional nature of changes in New York State Education require-

ments, program requirements may be altered according to state specifications. Therefore, students should check with their faculty advisor for explanation of program and certification requirements.

The School of Education offers the following graduate degrees:

- Master of Science in Education: Elementary Education
- Master of Science in Education: Reading Teacher
- Master of Science in Education: Secondary Education (Offered in cooperation with the respective arts and sciences departments in the following academic subjects: biology, chemistry, English and mathematics.)

In addition to these degrees, the department also offers a program leading to the Advanced Certificate in school administration and supervision.

Master of Science in Education: Elementary Education

*School of Education requirements for admission to program without deficiencies:*

- Provisional certification to teach elementary education in the public schools of New York State or equivalent preparation.
- Undergraduate GPA of 2.5 or above.
- Two current (within six months) letters of recommendation)

*Program Requirements* **Hrs.**

A minimum of 30 semester hours of graduate level courses, including:

- |   |  |   |
|---|--|---|
| 1. General Requirements                       |  |   |
| ED 570 Understanding Educational Research     |  | 3 |
| One course in psychological foundations from: |  | 3 |
| ED 501 Advanced Study: Child Psychology       |  |   |
| ED 502 Psychology of Adolescence              |  |   |
| ED 503 Evaluation in the Schools              |  |   |

ED 504 The Exceptional Learner		a. ED 570 Understanding Educational Research	3
ED 508 Mainstreaming		b. One course in psychological, social, historical, philosophical, or comparative foundations of education from:	3
ED 524 Remediation of Reading Difficulties		ED 501 Advanced Study: Child Psychology	
ED 529 Behavioral Disorders of School Children		ED 502 Psychology of Adolescence	
ED 530 Learning Theories and the Teaching Process		ED 503 Evaluation in the Schools	
ED 562 Infant Development and Education or equivalent		ED 504 The Exceptional Learner	
One course in social, historical, legal philosophical, or comparative foundations of education from:	3	ED 508 Mainstreaming	
ED 531 Philosophy of Education		ED 529 Behavioral Disorders of School Children	
ED 535 School and Society		ED 530 Learning Theories and the Teaching Process	
ED 539 Current Issues and Problems in Education		ED 531 Philosophy of Education	
ED 545 History of American Education		ED 535 School and Society	
ED 549 Comparative Education		ED 539 Current Issues and Problems in Education	
ED 626 Public School Law		ED 545 History of American Education	
2. Curriculum and Instruction	6	ED 549 Comparative Education	
<i>Required:</i>		ED 626 Public School Law	
ED 520 Curriculum Framework Theory		ED 630 School-Community Relations	
ED 525 Curriculum Framework Integration as advised;			
Plus a combination of curriculum and instruction courses to be chosen in cooperation with the academic advisor, chosen from a broad range of curriculum areas or from a specific area of interest.	12-15	c. Curriculum and Instruction	3
3. Written Comprehensive Examination or	0	<i>Required:</i>	
ED 690 Research	3	ED 520 Curriculum Framework Theory or	
		ED 525 Curriculum Framework Integration	
		2. Area of Certification - Eighteen semester hours from one of the following areas:	18
		Biology*	
		Chemistry*	
		English *	
		Mathematics *	
		3. Thesis, independent study project, or research project from either professional education or the academic subject area. * and/or	3
		4. Final Examination	0
		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

**Master of Science in Education: Secondary Education**

*Admission Requirements:* Completion of arts and sciences departmental requirements for admission to program without deficiencies.

Appropriate provisional certification to teach in the secondary schools of New York State or equivalent preparation.

*Program Requirements* Hrs.  
A minimum of 30 semester hours of graduate-level courses as follows:

1. General Requirements for All programs (9 semester hours in education)

**Master of Science in Education: Reading Teacher**

*School of Education requirements for admission to program without deficiencies:*

- Provisional certification to teach in the elementary schools of New York State or equivalent preparation.
- Undergraduate GPA of 2.5 or above
- Two current (within six months) letters of recommendation

*Program Requirements* Hrs.  
A minimum of 36 semester hours of graduate level courses which must include:

1. General Requirements:
 

ED 570 Understanding Educational Research	3
One course in psychological foundations from:	3
ED 501 Advanced Study: Child-Psychology	
ED 502 Psychology of Adolescence	
ED 503 Evaluation in the Schools	
ED 504 The Exceptional Learner	
ED 508 Mainstreaming	
ED 529 Behavioral Disorders of School Children	
ED 530 Learning Theories and the Teaching Process	
ED 591 Psychology of Reading	
One course in social, historical, philosophical, or comparative foundations of education from:	3
ED 531 Philosophy of Education	
ED 535 School and Society	
ED 539 Current Issues and Problems in Education	
ED 545 Comparative Education	
ED 591 Sociolinguistics and Literacy Education	
ED 626 Public School Law	
Literacy Foundations:	3
ED 506 Foundations of Reading Instruction in the Elementary School and Classroom	9
2. Clinical Practice
 

ED 524 Remediation of Reading Difficulties	
ED 606 Methods in Diagnosis and Treatment of Reading Difficulties	
ED 608 Clinical Diagnosis of Reading Disabilities	

\* see separate listings under each academic area of concentration.

<i>Reading Electives:</i>		12
ED 510	Microcomputers as Applied to Reading Instruction	
ED 511	Activities for Individualized Reading	
ED 537	Critical Examination of Children's Literature	
ED 622	Issues, Trends and Research in Reading	
3.	Capstone Experience	3
ED 607	Practicum in Reading	
4.	Written Comprehensive Examination	0
	Total	36

**Advanced Certificate: School Administrator and Supervisor**

The School Administrator/Supervisor program leads to an Advanced Certificate and permanent certification in school administration and supervision. This certificate permits the candidate to assume such roles as principal, assistant principal, supervisor, department chairperson, or program coordinator.

*School of Education requirements for admission to program without deficiencies:*

Appropriate provisional certification to teach in public schools of New York State.

Completion of a master's degree in an appropriate field.

Three years of satisfactory teaching experience at the elementary or secondary level and a written recommendation from the candidate's school superintendent.

Qualified graduate students may be admitted to course work before admission to the program.

**Program Requirements** *Hrs.*

1. Completion of the master's degree program in the appropriate field.
2. A minimum of 30 semester hours of graduate-level courses, including:  
Three semester hours from educational research, evalua-

	tion or statistics, selected under advisement, if such a course has not previously been taken.	
3.	Course offerings in administration/supervision, such as the following:	
ED 614	The School Administrator/Supervisor	3
ED 616	Supervision I: Theory and Practice	3
ED 617	Supervision II: The Improvement of Instruction	3
ED 620	Public School Finance	3
ED 626	Public School Law	3
	Additional course(s) as advised	6-9
	Six semester hours from supervised internship and related research paper	6
ED 618	Internship: School Administrator/Supervisor, Elementary or	
ED 619	Internship: School Administrator/Supervisor, Secondary	
4.	Thesis, independent study project, or research project from professional education related to the internship	0
5.	A comprehensive examination, either oral or written as determined by the advisor, covering the professional component of the student's program.	0
	Total	30

**Certificate of Continuing Graduate Study**

The Certificate of Continuing Graduate Study (CCGS) is offered through SUNY Fredonia to provide an intensive and cohesive program of professional development beyond the master's level. It requires an academic specific specialty area under the guidance of a major department advisor, without the extended commitment and formal examination of a doctoral program. The CCGS program is not a university degree program, but a SUNY Fredonia certificate program. Upon completion of a 30-credit hour program beyond the master's degree, the student may apply for a certifi-

cate of completion. All 30 credit hours must be taken at SUNY Fredonia within a five-year period, and at least 21 credit hours must be taken in the student's major department.

**Requirements:**

1. Program candidates must hold a master's degree in the major subject to be studied. In Education, the student must hold a teaching certificate with a master's degree in a related field, or its equivalent.
2. Program candidates must complete a CCGS application including complete undergraduate, master's degree transcripts, and a copy of a teaching certificate.
3. Program acceptance is based upon completion of the application and available space.
4. Upon acceptance to the program, a faculty advisor will be assigned to the CCGS student. All courses taken as part of the CCGS must be approved in writing by the student's faculty advisor and recorded in the student's department folder.
5. Students will take and successfully complete 30 credit hours at the graduate level (21 of which must be in the major department) for completion of the certificate.
6. Projects or independent studies will be accepted as part of the CCGS only with the written approval of the student's advisor and the major department chair.
7. Upon completion of the program, the student may request a certificate of completion from SUNY Fredonia.

**Exceptional Childhood Education: Cooperative Program with the State University of New York College at Buffalo**

In cooperation with SUNY College at Buffalo, Fredonia offers courses which may be applied toward a graduate degree and certification in the area of special education from the College at Buffalo. Teachers wishing to avail themselves of this option must take the following steps:

1. Apply and be admitted to the regular master's degree program in special education offered by the Exceptional Child Education Department at the College at Buffalo.
2. Consult with an advisor at the College at Buffalo to determine which Fredonia courses may be included in the student's program. These will vary depending upon

prior course work and experience. Students should not take any Fredonia courses as part of this program until they have completed this step.

3. Apply for admission as a non-degree student at Fredonia, mentioning the College at Buffalo program.
4. After completing 6 credit hours of approved course work in the program at either college, and before taking additional courses, apply for candidacy at the College at Buffalo.

The following courses at Fredonia may be applied toward a degree in special education from the College at Buffalo:

*Required or prerequisite courses in exceptional child education:*

- ED 503 Evaluation in the Schools
- ED 504 The Exceptional Learner
- ED 529 Behavioral Disorders of School Children

*Elective Courses:*

- SH 500 Language Problems in Children
- SH 525 Speech and Hearing Problems in the Classroom

*Research Requirements:*

- ED 570 Understanding Educational Research
- ED 670 Independent Study
- ED 690 Research

It must be understood that enrollment in Fredonia courses cannot be guaranteed to students in this program. Courses are offered at the sole discretion of the School of Education at Fredonia.

In the list of courses below, to the right of each course name will be a 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

**ED 501. Advanced Study: Child Psychology C**

Methods for observing and measuring child behavior. Principles of research relating to 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.

*3 hours credit*

**ED 502. Psychology of Adolescence 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.

*3 hours credit*

**ED 503. Evaluation in the Schools 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.

*3 hours credit*

**ED 504. The Exceptional Learner B**

Survey of specific areas of exceptionality including handicapped, gifted, and emotionally disturbed children. Etiology, definition, classification, and educational problems of teaching exceptional children.

*3 hours credit*

**ED 505. Issues, Trends and Research D in Elementary School Language Arts**

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.

*3 hours credit*

**ED 506. Foundations of Reading Instruction in the Elementary Schools B**

Reading as a developmental process, including mechanics of reading, general and specific comprehensive skills, and reading attitudes. Reading program in the school, including the reading lesson, evaluation, individualization, coordinating total school effort, and current trends in reading instruction.

*3 hours credit*

**ED 507. Group Processes in Education 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.

*3 hours credit*

**ED 508. Mainstreaming B**

Introduces teachers to the legal and legislative bases for integrating exceptional learners into regular education programs. Provides information regarding placement options and support services available to integrated students. Practical approaches dealing with teaching and behavior management techniques are emphasized.

*3 hours credit*

**ED 509. Teaching of Thinking 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.

*3 hours credit*

**ED 510. Microcomputers as Applied to Reading Instruction D**

This course is designed to apply existing microcomputer software and hardware to instruction in basic reading skills. Strategies used to evaluate commercially prepared software will also be taught. Teachers will be provided with sufficient skill and knowledge to author instructional materials for both individual students and entire classes.

*3 hours credit*

**ED 511. Activities for Individualized Reading B**

Encourages and prepares classroom teachers to teach reading through individualized and learner-oriented activities. Selection, preparation, production, and use of distinctive activities to individualize reading emphasized.

*3 hours credit*

**ED 512. Creative Writing in the Elementary School D**

Study of the conditions fostering creative expression, ways of motivating children to write and use language creatively, the teacher's role in creative expression, and the study of prose and poetry forms appropriate for use in the elementary classroom. Directed experiences in writing provided.

*3 hours credit*

**ED 515. Dramatic Experiences in the Elementary School** **D**

Introduces teachers to techniques, methods, and materials of creative dramatic activities in the elementary classroom. Role of dramatics in various curricular areas explored. Directed experiences as leader and participant in a variety of dramatic activities provided.

*3 hours credit*

**ED 520. Curriculum Framework Theory/Development** **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 curriculum development practice.

*3 hours credit*

**ED 522. The Process of Valuing** **D**

Examination of theories of valuing. A variety of instructional approaches, materials, skills, and ways of organizing curriculum to assist students in dealing systematically with values - both their own and the values of society. Strategies are offered for identifying values, clarifying them, detecting inconsistencies, and strengthening values.

*3 hours credit*

**ED 524. Remediation of Reading Difficulties** **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.

*Prerequisite:* permission of the instructor.

*3 hours credit*

**ED 525. Curriculum Framework Integration/Innovations** **B**

Builds upon the information provided in ED 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.

*3 hours credit*

**ED 526. The Middle School Curriculum** **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.

*3 hours credit*

**ED 527. Microcomputers in Education** **B**

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.

*3 hours credit*

**ED 528. Computer Literacy for Educators** **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.

*3 hours credit*

**ED 529. Behavioral Disorders of School Children** **B**

Study of the child with mild to severe behavior disorders, emphasizing etiology, diagnosis, and strategies for management of the child and modification of the behavior. Examination of both non-categorical approaches, and clinical syndromes such as autism.

*Prerequisite:* permission of instructor.

*3 hours credit*

**ED 530. Learning Theories and the Teaching Process** **D**

Theoretical and scientific bases underlying the teaching-learning process. Applications to the learning process in the classroom.

*3 hours credit*

**ED 531. Philosophy of Education** **C**

Orientation to major philosophical outlooks and problems in contemporary education.

*3 hours credit*

**ED 535. School and Society** **B**

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.

*3 hours credit*

**ED 537. Comparative Children's Literature** **D**

Investigation and study of children's literature, including recent research. Critical

analysis of all literary genres for children, pre-school through middle school. Emphasis on stimulation of interest and inquiry through current concerns (values education, stereotyping, censorship, visual literacy, etc.).

*3 hours credit*

**ED 539. Current Issues and Problems in Education** **B**

Identification, definition, and 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.

*3 hours credit*

**ED 543. Education for Gifted and Talented** **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.

*3-6 hours credit*

**ED 544. The Secondary School Curriculum** **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.

*3 hours credit*

**ED 545. History of American Education** **D**

Historical interpretation of American education. Characteristics of American colonial education and significant developments in American elementary, secondary, and higher education during the 19th and 20th centuries.

*3 hours credit*

**ED 549. Comparative Education** **C**

Educational systems of selected foreign countries emphasizing educational philosophies and practices. Cultural, historical, and philosophical foundations underlying each educational system.

*3 hours credit*

**ED 550. Composition in the Secondary School** **D**

Examination of relationship between linguistic concepts and writing process. Analysis of relative values and appropriate levels of instruction for various types of writing. Investigation of effective instructional and evaluation procedures.

*3 hours credit*

- ED 553. Citizenship Education: Moral-Legal Education** **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; and (4) curricular implications and revisions needed.  
*3 hours credit*
- ED 561. Contemporary Issues in Parent/Teacher Relationships** **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.  
*3 hours credit*
- ED 562. Infant Development and Education** **C**  
Nutritional and psychological influences on prenatal, infant, and toddler growth and development. Topics covered: childbirth, breastfeeding, infant stimulation, intellectual development, attachment behavior, and infants in group care. Current research in infant development.  
*3 hours credit*
- ED 570. Understanding Educational Research** **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.*  
*3 hours credit*
- ED 573. Production and Use of Instructional Media** **D**  
Laboratory course in instructional graphics, film, and photography production and design, and production techniques. Series of individual projects completed, field tested, and evaluated.  
*3 hours credit*
- ED 580. Teaching Grades 7-12** **D**  
(A selected area to be designated - General, English, Mathematics, Foreign Languages, Science, or Social Studies.)
- Practical suggestions for teachers 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 interests of participants.  
*3 hours credit*
- ED 590-591. Studies in Education** **B**  
Exploration in depth of selected topics in professional education. Principal focus of the course varies from semester to semester. ED 591 courses qualify for the master's program, maximum of 6 hours in ED 590.  
*3 hours credit each semester*
- ED 603. Issues, Trends, and Research in Elementary School Science** **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.  
*3 hours credit*
- ED 605. Issues, Trends, and Research in Elementary School Language Arts** **C**  
Structure and organization of language arts programs. Examination of past and current research. Evaluation of current programs.  
*3 hours credit*
- ED 606. Methods in Diagnosis and Treatment of Reading Difficulties** **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.  
*Prerequisite: permission of instructor.*  
*3 hours credit*
- ED 607. Practicum in Reading** **B**  
Supervised laboratory experiences in diagnosis and treatment of reading difficulties.  
*Prerequisite: ED 606 or equivalent.*  
*3 hours credit*
- ED 608. Clinical Diagnosis of Reading Disabilities** **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: ED 607 or equivalent.*  
*3 hours credit*
- ED 611. Advanced Seminar in Elementary Education** **D**  
Individual problems of the teachers enrolled. Individual research on problems of special interest under guidance of one or more staff members.  
*3 hours credit*
- ED 622. Issues, Trends, and Research in Reading** **D**  
Critical analysis of past and current issues, trends, and research in reading. Evaluation of current reading programs. Seminar discussions.  
*3 hours credit*
- ED 625. Early Childhood Curriculum** **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.  
*3 hours credit*
- ED 629. Issues, Trends, and Research in Early Childhood Education** **C**  
Basic issues in early childhood education explored, current trends delineated, and past and current research studies.  
*3 hours credit*
- ED 635. Curriculum Development in Social Studies Education** **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.  
*Prerequisites: 3 hours in social studies education and 12 hours in the social sciences, undergraduate level.*  
*3 hours credit*
- ED 636. Issues, Trends, and Research in Elementary School Social Studies** **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.  
*3 hours credit*



**ED 640. Issues and Trends in Elementary School Mathematics** **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.

*3 hours credit*

**ED 642. An Activity-Oriented Methods Course for Elementary Mathematics Teachers** **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.

*3 hours credit*

**ED 643. Diagnosis and Treatment of Learning Difficulties in Elementary School Mathematics** **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.

*3 hours credit*

**ED 670. Independent Study** **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. *Prerequisite:* permission of advisor and/or chairperson.

*Variable credit*

**ED 690-691. Research** **A**

Research including the preparation of a project, essay, or thesis.

*Prerequisite:* permission of instructor, advisor, or chairperson.

*3-6 hours credit*

**ADMINISTRATION AND SUPERVISION****ED 614. Principles of Administration** **B**

Basic functions of educational administration. Role of administrator as service agent for instruction and his/her function as coordinator of school programs.

*3 hours credit*

**ED 615. The School Administrator/Supervisor** **B**

Nature, responsibilities, and developing status of elementary and secondary principals. Role of principal and supervisor as educational leader: relationships with parent and community groups, guidance functions, management of administrative records, administration of equipment and supplies.

*3 hours credit*

**ED 616. Supervision I: Theory and Practice** **B**

Nature and function of supervision in modern school. Role of supervisor in cooperative group planning and development of programs for improving instruction. Supervisor's part 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.

*3 hours credit*

**ED 617. Supervision II: The Improvement of Instruction** **B**

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

*3 hours credit*

**\* ED 618. Internship: School Administrator/Supervisor, Elementary** **B**

Field experience in activities related to functions of elementary school administrator/supervisor.

*3-6 hours credit*

**\* ED 619. Internship: School Administrator/Supervisor, Secondary** **B**

Field experience in activities related to functions of secondary school administrator/supervisor.

*3-6 hours credit*

**ED 620. Public School Finance** **B**

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.

*3 hours credit*

**ED 624. Contemporary Problems in School Administration** **B**

Intensive study of selected current or emerging problems in administration. Significant problems chosen for study will vary.

*3 hours credit*

**ED 626. Public School Law** **B**

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.

*3 hours credit*

**ED 630. Educational Administration** **B**

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.

*3 hours credit*

\* Registration for ED 618-619 is conditional upon permission of the student's advisor. Permission is based on several factors including satisfactory completion of appropriate course work and of a preliminary draft of the proposed internship experience.

**ENGLISH**

Office: 277 Fenton Hall  
(716) 673-3125

E-mail: English@fredonia.edu

**Robert H. Deming, Chairperson**

**Master of Arts**

The graduate program in English provides students with 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.



**EN 665. Studies in English Education** **D**

Study of components of English with emphasis on the relationships between linguistics, criticism, composition, media, and learning theories. Focus is on the implications of these relationships for teaching English.  
*3 hours credit*

**EN 690-691. Thesis Research I and II** **A**

Directed research leading to the preparation of a thesis. The two courses must be taken sequentially in separate semesters.  
*3 hours credit each semester*

## FOREIGN LANGUAGES AND LITERATURES

Office: 2110 Fenton Hall  
(716) 673-3380

E-mail: Forlang@fredonia.edu

French@fredonia.edu

Spanish@fredonia.edu

**Kenneth G. Lucey**, *Chairperson*

In the list of courses below, to the right of each course name will be a 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

**FL 500. Special Topics in Foreign Languages** **D**

Special area in any of the foreign languages and literatures not covered by regular courses.

*Prerequisite:* permission of department.  
*1-3 hours credit*

**FL 510. Directed Study** **D**

Individual supervised study of particular area or topic in any of the department's language or literature offerings. Periodic meetings with instructor and writing a substantial paper.

*Prerequisite:* permission of department.  
*1-3 hours credit*

## GEOSCIENCES

Office: 106 Houghton Hall  
(716) 673-3303

E-mail: Geo@fredonia.edu

**John L. Berkley**, *Chairperson*

In the list of courses below, to the right of each course name will be a 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

**GS 580-589. Special Topics in Advanced Geosciences** **D**

Special areas of problems in advanced geosciences not covered by regular graduate courses.

*Prerequisite:* permission of department.  
*3 hours credit each semester*

**GS 590. Independent Study** **D**

Independent study of topics not covered in regular graduate course offerings and pertinent to student's program of study or future career.

*Prerequisites:* graduate standing and permission of department.  
*3 hours credit*

**GS 610, 615. Independent Research** **D**

Independent research and study in current geoscientific problems based on laboratory and field research or current literature.

*Prerequisite:* permission of department.  
*3 hours credit each semester*

## INTERDISCIPLINARY STUDIES

Office: 810 Maytum Hall  
(716) 673-3808

E-mail: Interdis@fredonia.edu

**Leonard E. Faulk Jr.**, *Graduate Dean*

Graduate study in Interdisciplinary Studies leads to the completion of Master of Arts and Master of Science degree programs. These types of individually-created degree programs are designed specifically for the highly motivated, self-directed student whose personal, educational or career goals require a program which does not reside within the traditional boundaries or requirements of a specific discipline. Interdisciplinary graduate study and program design offer possibilities that are not found in the traditional master's programs. Along with the submission of an application form for graduate study, applicants for degree programs in Interdisciplinary Studies must complete a separate two-part form

which is available from the Office of Admissions.

Graduate students are admitted into Interdisciplinary Studies areas as non-degree students, unless a specific program proposal accompanies the Interdisciplinary Studies application form (Part 2 completed) and is approved provisionally by a graduate advisor. Non-degree graduate students in Interdisciplinary Studies are encouraged to submit a program proposal within the first semester of study. In any event, non-degree students must have a degree proposal accepted and approved by a graduate advisor and full committee (three members including the advisor) prior to the completion of 15 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 should be taken in any single department.

All applicants for graduate study in Interdisciplinary Studies must complete the two-part application form. Part I requests the provision of a general outline of the proposed program; Part II requests both a program title and a list of courses that will constitute the entire 30-hour program. Applicants for *degree-status upon admission* must complete both Parts 1 and 2.

Because student programs are individually designed, the culminating research effort - a topic or project explored in depth - is tailored so as 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, there must be demonstrated growth in skills, knowledge, or vision.

All work on Interdisciplinary Studies proposals must be coordinated by the Graduate Dean, with whom pro-

posals 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.

In the list of courses below, to the right of each course name will be a 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

**IS 690-691. Research A**  
 Directed research leading to the preparation of a final project, essay, or thesis.  
*Prerequisites:* permission of the advisory committee.  
 3 hours credit each semester

## MATHEMATICS

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

### Master of Science in Education

*Departmental requirements for admission to program without deficiencies:*

A bachelor's degree in Mathematics and provisional certification to teach mathematics in the secondary schools of New York State.

#### Program Requirements Hrs.

A minimum of 30 semester hours of graduate-level courses including:

- |   |    |
|---|----|
| 1. General Requirements   |    |
| ED 570 Understanding Educational Research   | 3  |
| One course in psychological, historical, philosophical, or comparative foundations of education | 3  |
| One course in pedagogy, methodology, or instruction   | 3  |
| 2. Area of Certification  | 18 |
| Eighteen hours to be selected under departmental advise-  |    |

- |   |    |
|---|----|
| ment from 500- and 600-level offerings in mathematics   |    |
| 3. Independent Study  | 3  |
| An independent study in either mathematics education or mathematics as advised.   |    |
| 4. Project or Comprehensive Examination   |    |
| No later than the end of the semester following the completion of 21 graduate hours, the student will meet with his/her advisor to develop a proposal for a final project in mathematics education or a syllabus for a comprehensive examination in mathematics. In the case of a project, the nature of the project may be a continuation of ideas developed during the independent study in requirement #3. |    |
| Total   | 30 |

In the list of courses below, to the right of each course name will be a 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

**MA 500. Independent Study A**  
 Independent study of selected list of topics approved by faculty advisor.  
*Prerequisite:* permission of department.  
 3-6 hours credit

**MA 502. Mathematics Education Seminar**  
 Selected readings, discussions and reports on current topics in mathematics education.  
*Prerequisite:* permission of department.  
 3 hours credit

**MA 503. Mathematics Seminar D**  
 Selected readings, discussions, and reports on topics in modern mathematics.  
*Prerequisite:* permission of department.  
 3-6 hours credit

**MA 508. Mathematical Applications for Teachers D**  
 Mathematical applications of concepts encountered in high school algebra, geometry, trigonometry, and calculus, as well as practi-

cal applications of some topics found in junior high mathematics.

3 hours credit

**MA 509. Technology and Mathematics** D

A survey of current issues and trends in the application of technology in mathematics.

*Prerequisite:* permission of department.

3 hours credit

**MA 510. Modern Mathematics for Elementary Teachers** D

In-service course for elementary teachers providing opportunity to acquire basic competency in such important areas as number theory, geometry, mathematical reasoning, and probability and statistics.

3 hours credit

**MA 513. Modern Mathematics for Junior High School Teachers** D

Fundamental concepts of mathematics such as numbers, systems, sets, sentences, logic, functions, relations, geometric concepts expressed in set language, ratios, probabilities, measurement, and problem solving.

3 hours credit

**MA 514. Seminar: A Critical Study of the Evolving Mathematics for Grades 7-9** D

Study of experimental materials and current research relevant to teaching mathematics at junior high level.

3 hours credit

**MA 515. Seminar: A Critical Study of the Evolving Mathematics for Grades 10-12** D

Study of experimental materials and current research relevant to teaching mathematics at senior high level.

3 hours credit

**MA 516. Modern Abstract Algebra** D

Structures and properties of integers and rings, fields, polynomials, and groups. Proofs of theorems.

3 hours credit

**MA 517. Linear Algebra** D

Vector spaces, linear dependence, linear transformations, matrices, change of bases, characteristic vectors, canonical forms, quadratic forms, determinants, Cayley-Hamilton Theorem, and related topics.

3 hours credit

**MA 518. Modern Geometry** D

Elements of plane geometry (through congruence) from synthetic and metric approaches. The S.M.S.G. metric approach in plane and solid geometry, Euclid's geometry extended. Discovery of analytic geometry, applications, parallelism, similarity. Area, vol-

ume. Ruler and compass constructions. Non-Euclidean geometries.

3 hours credit

**MA 519. Non-Euclidean Geometry** D

Role of 5th postulate of Euclid. Absolute plane geometry. Euclidean geometry contrasted with Lobachevskian and Riemannian. Introduction to projective geometry. Pure analytic geometry.

*Prerequisite:* MA 518.

3 hours credit

**MA 520. Probability-Statistics I** D

Introduction to probabilities. Independent trials. Functions of sample space. Poisson and normal approximations. Elementary statistics (based on probability theory). Sampling. Estimation and hypothesis testing. Applications.

3 hours credit

**MA 521. Probability-Statistics II** D

Continuous sample spaces. Limit theorems. Stochastic processes. Statistical inference. Statistical models. Applications.

*Prerequisite:* MA 520.

3 hours credit

**MA 523. Theory of Numbers** D

The Euclidean algorithm and its consequences. Congruences. Primitive roots and indices. Quadratic residues. Number theoretic functions and distribution of primes. Sums of squares. Pell's equation and some applications to rational number theory.

3 hours credit

**MA 525. Foundations of Mathematics** D

Fundamentals of set theory, construction of number system, axiomatic method, mathematical logic, viewpoints on foundations.

*Prerequisite:* permission of department.

3 hours credit

**MA 526-527. Real Variables** D

Topology of the real line. Lebesgue measure and integration on the real line.  $L_p$  spaces, measure spaces, signed measures, introduction to Banach spaces.

*Prerequisites:* two semesters of undergraduate real variables; MA 526 prerequisite to 527.

3 hours credit each semester

**MA 528. Group Theory with Applications** D

Groups, subgroups, normal subgroups, factor groups, isomorphism theorems, the Classification Theorem for isometries, symmetry groups of polygons and polyhedra.

*Prerequisite:* one semester of undergraduate abstract algebra.

3 hours credit

**MA 530-531. Algebra** D

Sets, functions, functors. Universal elements, groups, isomorphism theorems, rings, modules, field theory. Introduction to homological algebra.

*Prerequisites:* two semesters of undergraduate course in abstract algebra; MA 530 is prerequisite to 531.

3 hours credit each semester

**MA 532. Algebra of Vectors and Matrices** D

Finite dimensional vector spaces and their linear transformations. Fields, vector spaces, bases, dual spaces, multilinear forms, tensor products, basis-free definition of determinants, matrices, orthonogonality, Jordan canonical form, Hamilton-Cayley theorem, spectral theorem.

*Prerequisite:* Abstract Algebra.

3 hours credit

**MA 540-541. Topology** D

Detailed study of topological spaces, their invariants (both set theoretic and algebraic), and their fundamental properties.

*Prerequisite:* two semesters of real variables; MA 540 prerequisite to 541.

3 hours credit each semester

**MA 542-543. Projective and Related Geometries** D

Using an approach based mainly on linear algebra, development of projective geometry and various geometries which arise as subgeometries of projective geometry.

*Prerequisites:* two semesters of undergraduate geometry or permission of department; MA 542 prerequisite to 543.

3 hours credit each semester

**MA 581. Historical Development of Mathematics** D

Historical evolution of elementary mathematics from ancient times to present.

3 hours credit

**MA 603. Mathematics Seminar** D

Selected readings, discussions, and reports on advanced topics in modern mathematics.

*Prerequisite:* permission of department.

3-6 hours credit

## MUSIC

Office: 1004 Mason Hall  
(716) 673-3151

E-mail: Music@fredonia.edu

**Peter J. Schoenbach**, *Director*

**Wade Weast**, *Interim 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 in 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 in lieu of a thesis 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.

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 MU 121-122, 123-124, 221-222, 223-224), a music history survey (equivalent to MU 160, 252 and 255), 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.

### 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. It is designed to prepare a student for further graduate study or to refine a specific area of interest or competence. This program leads to the academic qualifications required for Permanent Certification in New York State.

#### **Program Requirements** *Hrs.*

<i>Music Education and Related Course Work</i>	
ME 521 Foundations in Music Education	3
ME 522 Psychological Research in Music	3
Music Education and/or Music Education related courses, by advisement (ME or MU)	6

*Course work in theory, history, literature, performance* 9

*Elective course work by advisement* 6  
Individualized selection of course work in theory, history, literature, performance and special studies (MU/ME 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" (ME 555) can be applied only in this category and require prior permission of the program advisor.

<i>Final Project</i>	
ME 695	3
Total	30

### **General Requirements**

1. At least 12 credits for the overall program should be in music education and music education-related course work.
2. At least 9 credits for the overall program should be in course work dealing with music theory, history, literature, analysis, or performance.
3. At least 15 credits of the overall program should be in course work at the 600 level.
4. Comprehensive Final Examinations
  - a. *Music Education*. Administered by two music education faculty. Evaluates the general competence of the candidate with regard to foundations, theory, principles and practices of music education. Questions are based upon music education course work but may also include some general questioning beyond specific course work.
  - b. *Theory, History, Literature, Performance*. Administered by two faculty who teach courses in this category. Evaluates the general competence of the candidate with regard to the level of musical knowledge and skill appropriate to teaching competence and the general musicianship and literacy expected for the Master of Music degree. Questions are based upon course work taken in this category but also may include some general questioning beyond specific course work.
5. 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.

### **In-Service Program**

This program provides the graduate student who is a teacher a greater range of courses rather than the often more specialized concentration of the Final Project program. In recognition of the great 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. This program leads to the academic qualifications required for Permanent Certification in New York State.

<b>Program Requirements</b>	<b>Hrs.</b>
<i>Music Education and Related Course Work</i>	
ME 521 Foundation in Music Education	3
ME 522 Psychological Research in Music	3
Music Education and/or Music Education related courses, by advisement (ME or MU)	9
<i>Course work in theory, history, literature, 12 performance</i>	
<i>Elective course work by advisement</i>	
Individualized selection of course work in theory, history, literature, performance and special studies (MU/ME 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" (ME 555) can be applied only to this category and require prior permission of the program advisor.	9
	36

**General Requirements**

1. At least 15 credits of the overall program should be in music education and music education related course work.
2. At least 12 credits of the overall program should be in course work dealing with music theory, history, literature, analysis, or performance.
3. At least 18 credits of the overall program should be in course work at the 600 level.
4. Comprehensive Final Examinations
  - a. *Music Education*. Administered by two music education faculty. Evaluates the general competence of the candidate with regard to foundations, theory, principles and practices of music education. Questions are based upon music education course work but may also include some general questioning beyond specific course work.
  - b. *Theory, History, Literature, Performance*. Administered by two faculty who teach courses in this category. Evaluates the general competence of the candidate with regard to the level of musical knowledge and skill appropriate to teaching competence and the general musicianship and literacy expected for the Master of Music degree. Questions are based upon course work taken in this category but also may include some general questioning beyond specific course work.
5. For more detailed information about program requirements, the candidate is referred to the *Policies and Practices for Master of Music Degree Can-*

*didates* available from the School of Music office.

**Master of Music in Performance**

**Program Requirements**

- |  |             |
|--|-------------|
| 1. A minimum of 30 semester hours of graduate level courses, with a minimum of 15 hours at the 600 level, including: | <b>Hrs.</b> |
| Studio instruction, MU 692-693   | 6           |
| MU 694 Recital   | 3           |
| Music history, literature, or theory courses related to the performance area   | 9           |
| Music history  | 3           |
| Music theory   | 3           |
| Elective courses in supporting areas of arts and sciences, professional education, music, or music education         | 6           |
| 2. Two semesters of ensemble participation (by advisement)   | 0           |
| 3. Final Comprehensive Oral Examination  | 0           |
| <b>Total</b>   | <b>30</b>   |

**Master of Music in Theory-Composition**

**Program Requirements**

- |   |             |
|---|-------------|
| 1. A minimum of 30 semester hours of graduate-level courses, with a minimum of 15 hours at the 600 level, including:        | <b>Hrs.</b> |
| <i>For Concentration in Theory</i>  |             |
| Theory and composition courses, in which Pedagogy of Theory MU 650 must be included   | 12          |
| Thesis (theory project)   | 3           |
| OR  |             |
| <i>For Concentration in Composition</i>   |             |
| Theory and composition courses, which must include two semesters (6 credit hours) of composition                            | 12          |
| Thesis (large-scale composition)  | 3           |
| Music history and studio instruction  | 9           |
| Elective courses in supporting areas of the fine arts, arts and sciences, professional education, music, or music education | 6           |
| 2. Two semesters of ensemble participation (by advisement)  | 0           |

3. Final Comprehensive Oral Examination	0
<b>Total</b>	<b>30</b>

**Provisional Certification Program in Music Education**

This program of study is designed for holders of accredited baccalaureates in music with majors other than music education. It is a *full-time non-degree* program of study resulting in qualification for New York State Provisional Teaching Certification, Music K through 12.

**Program Requirements**

1. Core Curriculum and General College Program:  
Applicants with accredited baccalaureates in music usually already meet the equivalency of the requirements in (a) the Fredonia School of Music Core Curriculum (applied major, music theory, music history, ensembles, etc.) and (b) Fredonia's General College Program (liberal arts and sciences for general education). The applicant's status with regard to any deficiencies of these areas, however, is determined by an evaluation of academic transcript/diagnostic examination/audition as applicable. Applicants with serious deficiencies will not be considered for admission to the Provisional Certification Program but instead may apply for the Bachelor of Music in Music Education degree program.
2. Certification Curriculum:  
Specifically required are music education foundations, methods, conducting, pedagogy, secondary instruments and student teaching. The minimum certification requirements below may be completed by any approved combination of (1) course work at Fredonia; (2) approved transfer of credits for course work completed elsewhere; and (3) special competency examinations in skill areas. Exact requirements and needs will vary by concentration (Choral or Instrumental) and with individual students by advisement. Exceptions or course substitutions are by permission only from the Associate Director of the School of Music upon the recommendation of the student's academic advisor. Students should note that certain courses are offered only in alternate semesters although most do not necessarily need to be taken sequentially. This is typically a three-semester 40 credit hour full-time residence program consisting of two se-

masters of certification-related course work and one semester of student teaching.

The student is admitted to Curriculum 558 Provisional Certification Music Education and is eligible to enroll for any Fredonia college course for which he/she has the necessary prerequisites or permission. Tuition is assessed according to the course level (100 to 400-level, undergraduate; 500 and 600-level, graduate). *Students should note that this program does not lead to an academic degree although some students may still be eligible for certain types of financial aid.* Students completing this curriculum may subsequently apply for admission to enter the Master of Music in Music Education degree program with the acceptance of credit for all graduate level course work already completed at Fredonia.

**Certification Requirements Hrs.**  
(see *Undergraduate Catalog* for descriptions of these courses)

ME 250 Foundations I	2
ME 251 Foundations II	2
ME 300 Foundations III	3
ME 391 Conducting V (vocal only)	3-2 *
ME 392 Conducting VI (vocal only)	3-2 *
ME 301-302, 304-305 Methods Piano, Guitar, Secondary Instruments per Concentration	5-7 *
ME 400 Professional Semester (Student Teaching)	8
	14

Successful completion of the National Teacher Exam (NTE) or LAST (Liberal Arts and Sciences Test), the ATS-W (Assessment of Teaching Skills - Written Test), and a Child Abuse Seminar are also required for state certification.

\* depending upon Concentration

In the list of courses below, to the right of each course name will be a 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

**MUSIC THEORY/  
COMPOSITION AND  
HISTORY**

**MU 502. Harmonic Styles Since 1850 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.

*Prerequisites:* MU 160, 221 or equivalent.  
3 hours credit

**MU 503. Twentieth Century Counterpoint 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.

*Prerequisites:* MU 160, 303, or equivalents.  
3 hours credit

**MU 506. Basic Studies Seminar: Theory 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.

3 hours credit

**MU 507. Basic Studies Seminar: History C**

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.

*Prerequisite:* successful completion of undergraduate music history requirement.  
3 hours credit

**MU 508. History and Literature of the Wind Band 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.

3 hours credit

**MU 520. Piano Literature 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.

3 hours credit

**MU 542. The Renaissance Period in Music 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:* MU 160, or equivalent.  
3 hours credit

**MU 543. The Baroque Period in Music D**

Detailed study of styles, trends, and developments in music, 17th and 18th centuries through preclassic era. Music studied through scores, recordings, and performance. Review of important historical and theoretical developments.

*Prerequisite:* MU 160, or equivalent.  
3 hours credit

**MU 544. The Classical Period in Music 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:* MU 160, or equivalent.  
3 hours credit

**MU 545. The Romantic Period in Music 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:* MU 160, or equivalent.  
3 hours credit

**MU 546. The Modern Period in Music 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:* MU 160, or equivalent.  
3 hours credit



**MU 550. Compositional Techniques Since 1950** **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.

3 hours credit

**MU 555. Special Topics Workshop** **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.

1-3 hours credit

**MU 565. Special Topics Seminar** **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.

1-3 hours credit

**MU 575. Music and Computer Multimedia** **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.

*Prerequisites:* significant experience with Macintosh or Windows-based computer operating systems. Some familiarity and experience with MIDI desirable. Otherwise, permission of instructor.

3 hours credit

**MU 576. Desktop Multimedia for Musicians** **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.

*Prerequisites:* ME 291 or relevant background in music and computer-oriented technologies and permission of instructor.

3 hours credit

**MU 590-591. Special Studies** **D**

Studies not otherwise 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 MU and ME may be earned this way in increments of no more than 3 credits.

1-3 hours credit

**MU 609-610. Composition** **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:* MU 438 or 439 (or equivalent), 609 prerequisite for 610; also by permission of instructor.

3 hours credit each semester

**MU 611-612. Composition** **B**

Continuation of advanced composition pursuing mature, professional creative expression.

*Prerequisite:* MU 610 or permission of instructor; 611 prerequisite for 612.

3 hours credit each semester

**MU 695. Thesis or Final Project** **A**

Candidate for degree in theory-composition engages in advanced work culminating in thesis project or composition/arrangement.

3 hours credit

**MUSIC EDUCATION****ME 510. Principles of Music Education with Media** **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 audiovisual 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.

3 hours credit

**ME 513. Systematic Design of Curricula for Music Education** **C**

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.

3 hours credit

**MU 514. Psychology of Music** **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.

3 hours credit

**ME 521. Foundations in Music Education** **C**

Study of philosophical, psychological, historical, and sociological foundations of music education in contemporary America, emphasizing current issues and developments. Particular application to curriculum and instruction in school music.

3 hours credit

**ME 522. Psychological Research in Music** **B**

Study of and experience with the methods and problems of psychological research in music; introduction to the existing literature relative to music education and music therapy.

3 hours credit

**ME 555. Special Topics Workshop** **D**

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.

1-3 hours credit

**ME 565. Special Topics Seminar** **D**

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.

1-3 hours credit

**ME 590-591. Special Studies** **D**  
 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 credit hours of any combination of MU and ME may be earned this way in increments of no more than 3 credit hours.

1-6 hours credit

**ME 609. Administration and Supervision of School Music** **C**  
 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.

3 hours credit

**ME 618. Seminar in Music Education** **C**  
 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.

3 hours credit

**ME 651. Philosophical Perspectives for Music Education** **C**  
 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.

3 hours credit

**ME 652. Psychological Perspectives for Music Education** **C**  
 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.

3 hours credit

**ME 695. Final Project** **A**  
 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.

1-3 hours credit

## APPLIED MUSIC

**MU 601-602-603-604. Applied Music Minor** **A**  
 Half-hour lessons in secondary applied instruments.  
*Prerequisite:* permission of School of Music office.

1 hour credit each semester

**MU 605-606-607-608. Applied Music Major** **A**  
 Hour lessons in major applied instruments.  
*Prerequisite:* permission of School of Music office.

2 hours credit each semester

**MU 692-693. Studio Instruction** **A**  
 Two semesters of advanced studio instruction for candidates for Performance degree culminating in MU 694 Recital.  
*Prerequisite:* satisfactory audition administered by faculty of appropriate applied area.

3 hours credit

**MU 694. Recital** **A**  
 Concurrently with MU 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.

3 hours credit

## PHYSICS

Office: 118 Houghton Hall  
 (716) 673-3301

E-mail: [Physics@fredonia.edu](mailto:Physics@fredonia.edu)  
**Subra Pendyala, Chairperson**

In the list of courses below, to the right of each course name will be a 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

**PH 530. Kinetic Theory and Statistical Mechanics** **D**  
 Maxwell-Boltzmann collision theory. H-theorem, transport equation, quantum statistics, partition functions, equipartition theorem, applications to thermodynamic systems, ergodicity.

*Prerequisites:* undergraduate preparation in thermodynamics and intermediate mechanics.

3 hours credit

**PH 531-532. Mathematical Physics** **D**  
 Mathematical methods including eigenfunctions and eigenvalues, variational principles, abstract vector spaces, integral equations, Green's functions, partial differential equations of physics.

*Prerequisite:* ordinary differential equations or equivalent.

3 hours credit each semester

**PH 533-534. Electromagnetic Theory** **D**  
 Potential theory and boundary value problems, electromagnetic field relations, magnetohydrodynamics, Lienard-Wiechert potentials.

*Prerequisite:* PH 531 or equivalent.

3 hours credit each semester

**PH 540. Modern Optics** **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.

*Prerequisite:* partial differential equations or equivalent.

3 hours credit

**PH 541. Advanced Dynamics** **D**  
 Lagrangian and Hamiltonian methods, variational principles, relativistic mechanics, transformation theory, oscillations, fields.

*Prerequisite:* PH 531 or equivalent.

3 hours credit

**PH 543-544. Quantum Mechanics** **D**  
 Solutions to wave equations, approximation methods, time dependent problems, vector spaces, matrix formulation, identical particles, scattering, radiation, second quantization.

*Prerequisite:* PH 531 or equivalent.

3 hours credit each semester

**PH 546. Reactor Physics** **D**  
 Nuclear reactions and radiations, reactor theory, instrumentation, control, fuel, shielding, heat transfer, and applications of nuclear reactors.

*Prerequisite:* PH 432 Nuclear Physics

3 hours credit

**PH 570-579. Special Topics** **D**  
Areas not covered in regular courses. Broad range of advanced topics consistent with teaching and research interests of department.  
*1-3 hours credit each semester*

**PH 630. Advanced Nuclear Physics** **D**  
Current experimental and theoretical topics including nuclear properties and systematics, nucleon scattering, nuclear forces and structure, reactions, decay processes, nuclear spectroscopy.  
*Prerequisites: PH 432 and 531 or equivalent. 3 hours credit*

**PH 631. Atomic and Molecular Structure** **D**  
Quantum mechanical treatment of atomic and molecular energy levels including transitions, fine and hyperfine structure, isotopic effects, beam methods, collision and ionization phenomena.  
*Prerequisite: PH 543 or equivalent. 3 hours credit*

**PH 690-691. Research** **D**  
Experimental or theoretical research in physics including a thesis.  
*3 hours credit each semester*

## PSYCHOLOGY

Office: W357 Thompson Hall  
(716) 673-3129  
E-mail: Psych@fredonia.edu  
**Jack Croxton, Chairperson**

In the list of courses below, to the right of each course name will be a 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

**PY 510. Contemporary Issues in Psychology** **D**  
Critical review of recent contributions to the field, including topics such as motivation, learning, personality, perception, and social influence.  
*3 hours credit*

**PY 550. Studies in Psychology** **D**  
Exploration in depth of selected topics in psychology. Major focus varies from semester to semester.  
*Prerequisite: permission of instructor. 1-3 hours credit*

## SOCIOLOGY/ ANTHROPOLOGY

Office: W363 Thompson Hall  
(716) 673-3205  
E-mail: Soc@fredonia.edu  
Anthro@fredonia.edu  
**David L. Larson, Chairperson**

In the list of courses below, to the right of each course name will be a 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

**SO 570. Directed Study in Sociology** **D**  
Individualized study under guidance of a member of the sociology faculty.  
*Prerequisite: permission of instructor. 1-3 hours credit*

**AN 570. Directed Study in Anthropology** **D**  
Individualized study under guidance of a member of the anthropology faculty.  
*Prerequisite: permission of instructor. 1-3 hours credit*

## SPEECH PATHOLOGY AND AUDIOLOGY

Office: W121 Thompson Hall  
(716) 673-3202  
E-mail: SpPath@fredonia.edu  
**Dennis M. Perez, 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 the spring semester, and January 1 for the following summer and fall semester.

The program has been designated as Licensed Qualified by the New York State Department of Education.

The graduate programs in Speech-Language Pathology and Audiology are accredited by the Council on Academic Accreditation of the American Speech-Language Hearing Association. The department has been designated as an Approved Sponsor for Continuing Education Activities by the American Speech-Language Hearing Association.

Master of Science in Speech Pathology or  
Master of Science in Education, Teacher of the Speech and Hearing Handicapped

*Departmental requirements for admission to the program without deficiencies:*

*To be admitted 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 speech-language-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 be on the graduate level. Two hundred-and-fifty clock hours must be in the major area - speech pathology or audiology.

**Program Requirements** *Hrs.*

a. A *minimum* of 39 semester hours in speech-language pathology/audiology courses, including:

- (1) 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):

SH 502	Clinical Practice, Communicative Disorders	3
SH 550	Advanced Audiology	3
SH 599	Experimental Phonetics	3
	or	
SH 565	Instrumentation	3
SH 605	Advanced Clinical Methods & Practice	6
SH 606	Research Design in Speech Pathology and Audiology or equivalent	3
SH 603	Neuropathologies of Speech & Language	3
	or	
SH 630	Assistive Listening *	3

Remaining hours in speech pathology and audiology as advised.

b. Final Comprehensive Examination (Plan I) or Thesis (Plan II) \_\_\_\_\_  
Total 39

\* Audiology Emphasis

In the list of courses below, to the right of each course name will be a 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

**SH 500. Language Problems in Children** **B**

Theoretical and practical background of intervention goals that can be applied to children with language/cognitive problems. *3 hours credit*

**SH 502. Clinical Practice, Communication Disorders** **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. *3 hours credit each semester*

**SH 510. Pediatric Audiology** **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:* SH 550 or permission of instructor. *3 hours credit*

**SH 525. Speech and Hearing Problems in the Classroom** **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 on classroom management of speech and hearing problems. *Not open to majors in Speech Pathology and Audiology.* *3 hours credit*

**SH 530. Communicative Disorders of Special Populations** **D**

Disorders of communication as manifested by impaired non-verbal and verbal language. Legal, ethical, psychoeducational implications. Diagnostic and habilitative strategies. Stress on interdisciplinary/multidisciplinary orientation. *3 hours credit*

**SH 531. Industrial Audiology and Hearing Conservation** **B**

An introduction to industrial parameters as they relate to clinical and industrial audiology settings. Study and performance of audiology as applied in clinical and field environments. Emphasis of theoretical and applied research to differentiate healthy from unhealthy environments and normal from abnormal audition in industrial employees. *Prerequisite:* SH 550. *3 hours credit*

**SH 550. Advanced Audiology** **B**

A graduate introduction to acoustics, anatomy and physiology, and pathology of the auditory system. Study and performance of audiology as applied in clinical environments. Emphasis of basic and advanced theoretical and applied research to differentiate normal from abnormal audition. *Prerequisite:* SH 322. *3 hours credit*

**SH 560. Studies in Hearing Research** **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:* SH 550. *3 hours credit*

**SH 565. Instrumentation in Communicative Disorders** **B**

An introduction in electronic instrumentation in communicative disorders. A theoretical background will be given for each instrument discussed. The focus of the course is directed to the functioning and application of various instruments. "Hands-on" experience is emphasized. *3 hours credit*

**SH 570. Contemporary Issues with the Hearing-Impaired** **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. *3 hours credit*

**SH 575. Craniofacial Anomalies** **B**

Etiology, symptomatology and management of communication disorders related to cleft

lip, cleft palate and associated disorders. Focus on interdisciplinary management.

*3 hours credit*

**SH 580. Electronystagmography B**  
Designed to provide advanced level graduate students with documentation, observations and practical application of measuring vestibular reactions in normal and abnormal patients.

*3 hours credit*

**SH 581. Evoked Response Audiometry B**

Designed to provide advanced level graduate students with documentation, observations and practical application of measuring responses to auditory evoked potentials, visually evoked potentials, somatosensory evoked potentials, and vestibular reactions in normal and abnormal patients.

*3 hours credit*

**SH 598. Voice Disorders B**

The study of deviant voices - causes, effects, and strategies for remediation.

*3 hours credit*

**SH 599. Experimental Phonetics B**

Measurement, description, and analysis of speech, its production and perception. Students become familiar with sound spectrograph as well as other research instrumentation typically employed in research. Designed for students in speech pathology and audiology, and linguistics.

*3 hours credit*

**SH 600. Phonological Theory and Disorders B**

Intensive individualized study of the literature in speech, language, and related disciplines concerning normal and deviant phonology.

*3 hours credit*

**SH 601. Stuttering Research B**

Intensive individualized study of the literature regarding stuttering, fluency, and related speech disorders.

*3 hours credit*

**SH 603. Neuropathologies of Speech and Language B**

Lectures, films, assigned readings, supervised observation in neuropathologies of aphasia, cerebral palsy, hearing loss, and related pathologies.

*3 hours credit*

**SH 605. Advanced Clinical Methods and Practice A**

Externship in speech-language pathology or audiology. Students assigned to a health care facility, rehabilitation center or speech and hearing clinic. Students perform diagnostics and therapy with patients at the facility under the supervision of a licensed and

ASHA certified staff speech-language pathologist or audiologist.

*Prerequisites:* minimum 21 hours academic course credits; recommendation by department; plus at least two credits of SH 502.

*6 hours credit*

**SH 606. Research Design in Speech Pathology and Audiology B**

An introduction to research design and statistical treatment to critically read and generate research. Study of basic and special applications to communication disorders. Emphasis of applied research to the formation and development of communication disorders in clinical environments.

*Prerequisite:* permission of chairperson.

*3 hours credit*

**SH 607. Directed Studies in Research Methodology - Thesis Research A**

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 degree is 3 hours.

*Prerequisite:* permission of the chairperson.

*1-6 hours credit*

**SH 609. Independent Study 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.

*Prerequisite:* permission of instructor, advisor, or chairperson.

*3 hours credit*

**SH 610. Dysphagia B**

Swallowing and associated disorders. Etiologies: anatomical/physiological bases. Diagnostic and treatment approaches, including bedside evaluation, radiologic examination, feeding and nutrition. This course may be taken only once.

*3 hours credit*

**SH 620. Diagnostic Theories and Practices 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.

*3 credit hours*

**SH 625. Topical Seminar in Speech Pathology/Audiology 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.

*3 hours credit*

**SH 630. Assistive Listening B**

An introduction to assistive listening devices. Study acoustical, electroacoustical, anatomical and physiological considerations to optimize auditory reception and perception of speech. Emphasis on theoretical and applied research to assess the contribution of assistive listening devices in clinical and field settings.

*Prerequisite:* SH 550 or permission of chairperson.

*3 hours credit*

## THEATRE AND DANCE

Office: 209 Rockefeller Arts Center  
(716) 673-3596

E-mail: Theatre@fredonia.edu

**Robert Klassen, Chairperson**

In the list of courses below, to the right of each course name will be a 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

**TA 530-531. Selected Studies in Theatre Arts D**

In-depth study of various specific areas in the theatre, either literature or production.

*Prerequisites:* Student should have some experience in theatre; permission of the department.

*1-12 hours credit*

**DA 561-562. Practicum in Dance D**

Internship in dance teaching for graduate dance students. By audition only. May be repeated.

*Prerequisite:* permission of the department.  
*3 hours credit per semester*

## NEW YORK STATE EDUCATION DEPARTMENT POSTSECONDARY COMPLAINT NOTICE

Please note that the State University College 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, 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.

## GENERAL STATEMENT

### State University of New York

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 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. It has grown to a point where its impact is felt educationally, culturally and economically the length and breadth of the state.

As a comprehensive public university, SUNY provides a meaningful educational experience to the broadest spectrum of individuals. Nearly 367,000 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, for over 25 years a leader in non-traditional education, distance learning, and assessment of prior learning.

Of the total enrollment, approximately 39.4 percent of the students are 25 years of age or older, reflecting State University's services to specific constituencies, such as training courses for business and industry, continuing educational opportunities for the professional community, and personal enrichment for more mature persons.

SUNY's students are predominantly New York State residents. Representing every one of the state's 62 counties, they make up more than 96 percent of the university's undergraduate student population. SUNY students also come from every other state in the United States, from four U.S. territories or possessions, and from more than 160 foreign countries.

SUNY enrolls 35 percent of all New York State high school graduates, and its total enrollment of just under 370,000 (full-time and part-time) is approximately 37 percent of the state's entire higher education student population. Between 1976 and 1995, the university recorded a 160 percent increase in the enrollment of African, Asian, Hispanic and Native Americans, compared with a 63 percent average increase among colleges and universities across the state.

Because of its structure and comprehensive programs, SUNY offers students a wide diversity of educational options: short-term vocational/technical courses, certificate programs, baccalaureate degrees, graduate degrees, and post-doctoral studies. The university offers access to almost every field of academic or professional study somewhere within the system - some 5,180 programs of study overall.

Curricula range from those in the more conventional career fields, such as business, engineering, medicine, teaching, performing arts, social work, finance and forestry, to those concerned with tomorrow's developing and societal needs in the areas of environmental science, urban studies, immunology, information systems, biotechnology, telecommunications, microbiology and health services management.

As part of the university's commitment to bring to the students of New York the very best and brightest scholars, scientists, artists and professionals, SUNY's distinguished faculty is recruited from the finest graduate schools and universities throughout the United States and many countries around the world, and includes nationally and internationally recognized figures in all the major disciplines. Their efforts are regularly recognized in numerous prestigious awards and honors.

State University's research contributions are helping to solve some of today's most urgent problems. At the same time, contracts and grants received by university faculty directly benefit the economic development of the regions in which they are located.

SUNY researchers pioneered nuclear magnetic resonance imaging, introduced time-lapse photography of forestry subjects, isolated the bacteria that causes Lyme disease, and developed the first implantable heart pacemaker. Other university researchers continue important studies in such wide-ranging areas as breast cancer, immunology, marine biology, sickle-cell anemia, and robotics, and make hundreds of other contributions, inventions and innovations for the benefit of society.

The university's program for the educationally and economically disadvantaged, consisting of Educational Opportunity Programs (EOP) and Educational Opportunity Centers (EOC), has become a model for delivering better learning opportunities to young people and adults traditionally bypassed by higher education. Over the past 30 years, almost 482,000 New York State residents have been served.

EOPs currently serve 11,500 students at 47 SUNY campuses, providing counseling and tutoring to improve scholastic performance, and support services in such areas as academic planning, housing and financial aid. At EOCs in 10 locations across the state, an additional 13,000 students are improving educational competencies, preparing for college entry, or learning marketable skills and occupations.

The 30 locally-sponsored two-year community colleges operating under the program of SUNY 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 the forefront of efforts to meet the accelerating pace of technological developments and the requirements of continuing educational opportunity, they provide local industry with trained technicians and help companies and employees in retraining and skills upgrading.

As a public university, SUNY has a special responsibility to make its rich and varied resources accessible to all. By focusing its educational system on the needs of the state, the university becomes a valuable resource for meeting those needs for today and tomorrow.

SUNY believes efficiencies in instructional delivery and administrative transactions can be achieved while preserving affordable, quality higher education for its students. In 1995, the 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.

SUNY's involvement in the health sciences and health care is extensive and responsive to the rapid changes in society and the growing needs identified by the state's public health community. Hundreds of thousands of New York's citizens are served each year by medical and health sciences faculty and students in university hospitals and 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 through Business and Industry Centers, the New York State Small Business Development Center, the Strategic Partnership for Industrial Resurgence, Rural Services Institutes, the Trade Adjustment Assistance Center, Technical Assistance Centers, Small Business Institutes, Centers for Advanced Technology, and international development.

SUNY's libraries, the major resource which supports the teaching and research activities of its students and faculty, are an important community resource too. Nearly six million items circulated by campus libraries in the fiscal year 1995-96, another three million items were used in-house, and almost a quarter of a million items were made available to the wider community through interlibrary loan. Increasingly, the circulation methods reflected in these traditional statistics are supplemented by electronic and Internet access. Annual attendance at the university's libraries is more than 21 million students, faculty and public citizens. More than 20 million volumes and government documents are available, as well as nearly 14,000 CD-ROMs and other computer files. More than two million reference questions were answered, many consisting of requests for help with CD-ROM and on-line database searches.

The university passed a major milestone in the mid-1980s when it graduated its one-millionth alumnus, and currently numbers 1.9 million graduates on its rolls. The majority of SUNY's alumni reside and pursue careers in communities across New York State, contributing to the economic and social vitality of its people.

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 SUNY Board of Trustees is defined by law.

The university's motto is, "To Learn - To Search - To Serve."

## STATE UNIVERSITY OF NEW YORK

### UNIVERSITY CENTERS

State University of New York at Albany  
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### UNIVERSITY COLLEGES

State University College at Brockport  
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### HEALTH SCIENCE CENTERS

State University Health Science  
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### COLLEGES OF TECHNOLOGY

State University College of  
Technology at Alfred  
State University College of  
Technology at Canton  
State University College of  
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State University College of  
Technology at Delhi  
State University College of  
Agriculture and Technology at Morrisville

### SPECIALIZED COLLEGES

State University College of  
Environmental Science and Forestry  
State University Maritime College  
State University College of Optometry  
State University Institute of Technology  
at Utica/Rome  
State University College of  
Technology at Farmingdale

### STATUTORY COLLEGES

New York State College of Ceramics at Alfred  
University  
New York State College of Agriculture and Life  
Sciences at Cornell University  
New York State College of Human Ecology at  
Cornell University  
New York State School of Industrial and Labor  
Relations at Cornell University  
New York State College of Veterinary Medicine  
at Cornell University

### COMMUNITY COLLEGES

Adirondack Community College at Glens Falls  
Broome Community College at Binghamton  
Cayuga County Community College at Auburn  
Clinton Community College at Plattsburgh  
Columbia-Greene Community College at Hudson  
Corning Community College at Corning  
Dutchess Community College at Poughkeepsie  
Erie Community College at Williamsville, Buffalo  
and Orchard Park  
Fashion Institute of Technology at New York  
City  
Finger Lakes Community College at Canandaigua  
Fulton-Montgomery Community College at  
Johnstown  
Genesee Community College at Batavia  
Herkimer County Community College at Herkimer  
Hudson Valley Community College at Troy  
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Nassau Community College at Garden City  
Niagara County Community College at Sanborn  
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Schenectady  
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## Communication

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## Music

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DONALD A. J. BOHLEN, *Professor*  
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## A

Academic Credit, 8  
Accreditation, Inside Front Cover  
Administration, 49  
Admission to Graduate Study, 5  
Advanced Certificate, 28  
Advisement, 7  
Alumni Association, 48  
Applications  
    For Admission, 5  
    For Degree, 7  
Art, 23  
Assistantships, 11  
Auto Use, 18

## B

Billing Procedures, 13  
Biology, 23  
Buildings, 17

## C

Calendar, 4  
Career Development Office, 17  
Certificate of Continuing Graduate  
    Study, 28  
Certification, 7  
Chemistry, 25  
College Council, 48  
Completion of a Degree Program, 7  
Comprehensive Examination, 6  
Confidential Records, 9  
Counseling  
    Career, 7  
    Personal, see *Undergraduate  
    Catalog*  
Course Load, 8  
Course Numbers, 8  
Course Schedules, Changes in, 8  
Curriculum Codes, 22

## D

Dance Courses, 44  
Deferment Policy, 13  
Degree Requirements, 6  
Degrees Offered, 22  
Disabled, Services to, Inside Front  
    Cover

## E

Education, 26  
    Advanced Certificate, 28  
    Elementary, 26  
    Exceptional Child Education, 28  
    Reading Teacher, 27  
    Secondary, 27  
English, 32

## F

Faculty Advisors, 7  
Failure to Pay College Charges, 13  
Fees, 12

Financial Aid, 10  
Foreign Languages, 34  
Fredonia College Foundation, 21, 48  
Full and Part-time Status, 8

## G

General Information, 16  
Geosciences, 34  
Good Academic Standing, 6  
Grading System, 8  
Graduate Assistants, 11  
Graduate Studies Committee, 5, 52  
Graduate Course Numbers, 8  
Graduate Opportunity Tuition  
    Waiver, 11

## H

Handicapped, Services to,  
    Inside Front Cover  
Health Insurance, 12  
HEGIS Codes, 22  
Housing, 18

## I

Information Technology, 19  
Interdisciplinary Studies, 34

## L

Learning Center, 20  
Library, 20  
Loans, Student, 10

## M

Mathematics, 35  
Media Center, 19  
Minority Graduate Fellowship  
    Program, 11  
Miscellaneous Fees, Fines and  
    Deposits, 13  
Multicultural Affairs, 18  
Music, 37  
    Music Certification Program, 38  
    Music Education, 37  
    Music Performance, 38  
    Music Theory-Composition, 38

## N

New York State Tuition Assistance  
    Program, 10  
Non-Discrimination Policy,  
    Inside Front Cover

## P

Parking, 18  
Part-time Student, 8  
Payment Requirements, 13  
Physics, 41  
Plagiarism, 9  
Pre-registration, 7  
Privacy Act, see *Undergraduate  
    Catalog*

Psychology, 42

## Q

Quality Points, 8

## R

Reed Library, 20  
Refunds, 14  
Registration, 7  
Residence Credit, 7

## S

Satisfactory Academic Progress, 11  
Schedule Changes, 8  
Sociology/Anthropology, 42  
Speech Pathology and Audiology, 42  
Stafford Loans, 10  
Student Services and Programs  
    Charge, 12  
Summer Sessions, 6  
Support Services, 19

## T

Theatre and Dance, 44  
Thesis, 6  
Transfer Credit, 7  
Tuition, 12  
Tuition Assistance Program, 10  
Tuition Waiver, 11

## U

Undergraduates, Graduate  
    courses open to, 8

## V

Veterans Administration  
    Educational  
    Benefits, 11, 18  
Vocational Rehabilitation Grants,  
    11

## W

Withdrawal, 8  
Work-Experience, Credit for, 8

## Y

Youngerman Center for  
    Communication Disorders, 20