

68 State University of New York at Fredonia

Two courses chosen from:	6	BUAD 446 Sales Management**	3	1. Students are required to take a logic course:
MUS 270 History of Amer. Popular Music		MUS 476 Audio and Desktop Multimedia		
MUS 333 Music of the World		or	3	PHIL 116 Intro. to Deductive Logic
MUS 265 History of Jazz		MUS 485 Multimedia for Musicians		or
MUS 269 Music Criticism		*Prerequisite: COMM 101		PHIL 301 Intermediate Deductive Logic

II. Business Core (39 credit hours):

CSIT 104 Introduction to Microcomputer Software	3
ECON 200 Statistics	3
STAT 200 Statistical Methods	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Principles of Microeconomics	3
ACCT 201 Principles of Financial Accounting	3
ACCT 202 Principles of Managerial Accounting	3
BUAD 310 Legal Environment of Business	3
BUAD 315 Principles of Business Finance	3
BUAD 321 Management and Organizational Behavior	3
BUAD 325 Principles of Marketing	3
MUS 380 The Business of Music	3
MUS 385 Music Contracts	3
MUS 285 Music Copyright	3

III. Area of Concentration (9 credit hours):

Students in Music Business must complete a minimum of 9 credit hours in one of two concentrations:

Communications/Public Relations (select 9 credit hours from below)

COMM 102 Mass Media and Society	3
COMM 110 Desktop Presentation	1
COMM 111 Web Design	1
COMM 112 Desktop Video	1
COMM 114 Electronic Darkroom	1
COMM 115 Advanced Electronic Darkroom	1
COMM 116 Desktop Publishing	1
COMM 118 Desktop Audio	1
COMM 222 Principles of Public Relations*	3
BUAD 235/ COMM 235 Introduction to Business Communication	3
JOUR 270 Issues in Journalism	3
MUS 476 Audio and Desktop Media or	3
MUS 485 Multimedia for Musicians	3

Or

Merchandising/Promoting (select 9 credit hours from below)

BUAD 340 Marketing Research***	3
BUAD 342 Consumer Behavior**	3
BUAD 445 Integrated Marketing Communication	3

PHILOSOPHY

Office: 2111 Fenton Hall
(716) 673-3495
E-mail: Philosophy.Department@fredonia.edu

Raymond Angelo Belliotti, Chairperson

Philosophy is the study of the most basic questions one can ask about reality, human existence, knowledge, value, and meaning. It develops the skills of careful inquiry and logical thinking, which are the hallmarks of successful people in all walks of life. The philosophy department offers a major, a minor, and a series of courses designed to complement student majors in other fields, as well as courses of general interest to all students.

Numerous philosophy courses are designed to complement student majors in other fields including business, economics, computer science, art, film, music, theatre, criminal justice, legal studies, and the natural and social sciences. The philosophy department has advisement material available for students who wish to pursue an interest in philosophy in conjunction with these majors and minors.

Graduates with a degree in Philosophy typically go on to careers in areas such as law, business, public service, teaching and creative writing.

The Fredonia Philosophical Society is a student initiated club organized for the purpose of holding extra-curricular discussions of a wide range of philosophical topics. The Fredonia Philosophical Society and the philosophy department co-sponsor external speakers of general interest. All meetings are open to the entire campus and the public.

Requirements for the Bachelor of Arts Degree in Philosophy

Thirty credit hours in philosophy, at least 18 credit hours of which are in courses numbered 300 or above.

2. and a history of philosophy course:

PHIL 222 The Greek Way	
or	
PHIL 224 Medieval Thought	
or	
PHIL 226 The Age of Reason and Its Legacy	3
or	
PHIL 432 The Age of Analysis	

and

3. PHIL 477 Capstone Seminar	3
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A Model Program would include:

PHIL 115 Philosophical Inquiry	3
PHIL 218 Intro. to Ethics	3
or	
PHIL 265 Social and Political Thought	
PHIL 345 The Meaning of Life	3
or	
PHIL 441 Philosophy of Language and Semantics	
PHIL 430 Philosophy of Mind	
or	
PHIL 351 Metaphysics	3
or	
PHIL 353 Theory of Knowledge	
Plus related philosophy courses	9
	<u>30</u>

Seniors are strongly urged to take an additional seminar:

PHIL 446-449 Selected Problems in Philosophy	
or	
PHIL 460-469 Major Philosophers	

Students should consult the department for current offerings in the above areas. All waivers of requirements must be approved by the chairperson.

Requirements for the Minor in Philosophy

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

The philosophy department participates in the Cooperative Engineering and Women's Studies programs. Refer to descriptions of these programs on pages 34 and 92, respectively.

Philosophy Departmental Honors

Philosophy department honors will be earned by those graduating majors who fulfill the following: (1) an overall GPA of at least 3.3; (2) a GPA in philosophy courses of at least 3.50; (3) completion of at least two 400-level courses with grades of "A-" or higher (exclusive of credit earned as a teaching assistant).

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

PHYSICS

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Michael Grady, Chairperson

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

Student Honors and Awards

Student honors and awards presented by the Department of Physics include the Hack Arroe Memorial Scholarship Award, the John J. Connelly Physics Scholarship Incentive Award, the John J. Connelly Physics Peer Recognition Award, and the Physics Department Scholarship Award. Students should contact the Department of Physics chairperson for additional details on these awards. Specific awards for Cooperative Engineering students are also available (see page 35).

The requirements for a B.S. in Physics include the core courses listed below and one of the Tracks I-IV. For a B.S. in Physics Adolescence Education, students must complete the core courses and Track VII.

<i>Physics Core:</i>		Hrs.
PHYS 230-231	University Physics I & II and PHYS 232-233 (Labs)	10
PHYS 234	Modern Physics	4
PHYS 330	Thermodynamics	3
PHYS 400	Undergraduate Seminar	1
PHYS 425	Mathematical Physics I	3
PHYS 431	Intro. to Quantum Mechanics	3
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and supporting math\CSIT courses:		
MATH 122-123-223	University Calculus I, II & III	12
MATH 224	Differential Equations	3
CSIT 106 or 121	Computer Science I	3
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		18

<i>Track I – Theoretical Emphasis</i>		
PHYS 331	Theoretical Mechanics	3
PHYS 333	Electricity and Magnetism	3
PHYS 426	Mathematical Physics II	3
	Plus 6 additional credit hours of physics from 321-479, 490	6
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Plus 12 additional credit hours of science, mathematics, computer science, engineering, or education. Recommended courses include MATH 231 and CHEM 115-116 (with 125-126).

<i>Track II – Experimental Emphasis</i>		
PHYS 333	Electricity and Magnetism	3
PHYS 340/341	Optics & Lab	4
PHYS 426	Mathematical Physics II	3
PHYS 450	Advanced Lab	1
	or	
	Experimental Physics Project (independent study or tutorial)	
	Plus 4 additional credit hours of physics from 321-479, 490	4
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Plus 12 additional credit hours of science, mathematics, computer science, engineering, or education. CHEM 115-116 (with 125-126) is strongly recommended. STAT 250 or 350 and MATH 231 are recommended.

<i>Track III – Computational Emphasis</i>		
PHYS 331	Theoretical Mechanics	3
PHYS 333	Electricity and Magnetism	3
PHYS 426	Mathematical Physics II	3
	Computational Physics Project (independent study or tutorial)	1
	Plus 4 additional credit hours of physics from 321-479, 490	4
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Plus the following courses:		
MATH 231	Linear Algebra	4
MATH 325	Numerical Analysis	3
CSIT 221	Computer Science II	3
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STAT 350 is recommended

<i>Track IV – Physics with Cooperative Engineering</i>		
PHYS 321	Engineering Mechanics I	4
PHYS 426	Mathematical Physics II	3
PHYS 331	Theoretical Mechanics	
	or	3
PHYS 333	Electricity and Magnetism	
PHYS 323	Circuit Analysis I	
	or	
PHYS 325/327	Digital Logic & Lab	
	or	3-4
PHYS 326/328	Electronics & Lab	
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Plus 12 additional credit hours of science, mathematics, computer science, engineering, or education, including CSIT 106 or 121 and at least one additional course from PHYS 322 through 328 and 340/341 as advised. Students interested in electrical engineering should take PHYS 323 and 324 while students interested in non-electrical engineering should take PHYS 322. CHEM 115-116 (w/125-126) is strongly recommended and required by most engineering schools.

Note: affiliated engineering institutions (page 34) may have additional requirements for courses and/or grades.

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

PHYS 340	Optics & Lab -341	4
	Plus 9 additional credit hours of physics from 321-479	9
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Plus the following courses:		
STAT 250 or 350	Statistics	3
POLI 276	Law and Society	3
POLI 277	Introduction to Law	
	or	3
BUAD 310	Legal Environment of Business	
PHIL 106	Critical Thinking	
	or	3
PHIL 116	Intro. to Deductive Logic	