

Drexel University

Catalog 2005 / 2006

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The College of Arts and Sciences

Mission Statement

By pursuing excellence in research and scholarship, we educate our students to become ethical professionals and citizens with knowledge of and appreciation for the fundamental interactions among the humanities and the sciences in a fast-changing, challenging, and diverse world.

About the College of Arts and Sciences

The College of Arts and Sciences was established on July 1, 1990, with the merger of the College of Sciences and the College of Humanities. The educational objectives of the college encompass a wide range of goals: to provide general educational courses for the University's undergraduates; to provide disciplinary study in the arts and sciences for our Bachelor of Science and Bachelor of Arts majors; to offer Master of Science and Doctoral programs in selected areas of faculty and research strength; to promote research, scholarships, and creative activities which expand disciplinary boundaries and to enhance faculty expertise and the quality of the university's instruction; and to improve the quality of life for the University's community through co-curricular programming in the arts and sciences.

Each major offered by the College of Arts and Sciences combines disciplinary study with broad and useful preparation for a variety of careers as well as for further study in graduate or professional school. Each combines arts and sciences coursework with an emphasis on new and emerging technology related to their respective fields.

All majors in the college offer co-operative education program options, with special opportunities relating academic study to work experience.

The college is open to transfer students, but transfer after the seventh term is not recommended. Applicants from another Drexel college may be admitted in any term of the academic year if they meet program requirements. Students should consult the Assistant Deans of the College of Arts and Sciences for further information. Our dedicated staff of professional advisors work to enhance a student's educational journey through a comprehensive academic advising program.

For additional information, visit the [The College of Arts and Sciences](#) web site.



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Anthropology

About the Major

Students majoring in anthropology broaden their understanding of the diversity of cultures and ways of life in the global environment through theoretical courses, content area courses, and specialized courses in field techniques and methodology.

The core of the major is an internship program and corresponding seminar (ANTH 390) taken each year for a total of 12 credits. The seminar requires presentation of research and facilitates the transformation of field experiences into ethnographic writing, films and other products. The class is restricted to anthropology majors and has been designed to provide students with the opportunity to be mentored by faculty and to establish peer-mentoring relationships with other students both within and outside of formal classes. This seminar is a place where fieldwork can be planned and issues of participant observation that come up in other courses can be discussed and analyzed.

For more information about the Anthropology major, visit the Culture and Communication department's [Anthropology](#) web site.



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Anthropology

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

General requirements		67.0-71.0 Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
Two Mathematics courses		6.0-8.0
Two Science courses		6.0-8.0
Foreign language courses		
A minimum of two consecutive language courses		8.0
Humanities and Fine Arts		
LING 102	Language and Society	3.0
Three Humanities and Fine Arts courses		9.0
Social and Behavioral sciences		
ANTH 110	The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
COM 150	Mass Media and Society	3.0
SOC 101	Introduction to Sociology	3.0
Social and Behavioral Science course		3.0
International Studies		
Two International Studies courses		6.0
Studies in Diversity		
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
Studies in Diversity course		3.0
Anthropology requirements		54.0 Credits
Community Research		
SOC 270	Theory of Applied and Community Sociology	3.0
ANTH 380	Special Topics in Anthropology: Ethnographic Methods	3.0
ANTH 390	Seminar in Ethnography	12.0

Methods Sequence

COM 220	Introduction to Communication Research	3.0
SOC 250	Research Methods I	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0

Theory Sequence

COM 210	Communication Theory	3.0
SOC 260 WI	Classical Social Theory	3.0
ANTH 410	Cultural Theory	3.0

Writing/Communication courses (select a minimum of two courses)

COM 230	Techniques of Speaking	3.0
COM 260 WI	Fundamentals of Journalism	3.0
or		
COM 280	Public Relations	3.0
COM 375	Grant Writing	3.0

Core Requirements

ANTH 215	Anthropology of Gender	3.0
ANTH 310	Societies in Transition	3.0
ANTH 330	Media Anthropology	3.0
COM 355	Ethnography of Communication	3.0

Other Program Requirements**30.0
Credits**

Students select five courses from the following list (or from the above Anthropology requirements list if the course has not already been taken to fulfill an Anthropology requirement.)

ANTH 120	Biblical Archaeology	3.0
ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 212	Topics in World Ethnography	3.0
ANTH 220	Aging in Cross-Cultural Perspectives	3.0
ANTH 255	Psychological Anthropology	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
ANTH 380	Special Topics in Anthropology	3.0
COM 345	Intercultural Communication	3.0
COM 360	International Communication	3.0
PSY 252	Death and Dying	3.0
SOC 125	Sociology of the Aging	3.0
SOC 215	Industrial Sociology	3.0
SOC 235	Sociology of Health	3.0
SOC 240	Urban Sociology	3.0
SOC 320 WI	Sociology of Deviant Behavior	3.0
SOC 335	Sociology of Education	3.0
SOC 380	Special Topics in Sociology	3.0

Electives**Credits****Free electives**

27.0-31.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA Anthropology

Bachelor of Arts Degree

[4-yr co-op](#)

Term 1		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		<i>14.0-15.0</i>
Term 2		Credits
ANTH 110	The Human Past	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		<i>14.0-15.0</i>
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
SOC 270	Theory of Applied and Community Sociology	3.0
ANTH 390	Seminar in Ethnography	3.0
SOC 260 WI	Classical Social Theory	3.0
<i>Term credits</i>		<i>15.0</i>
Term 4		Credits
COM 150	Mass Media and Society	3.0
ANTH 215	Anthropology of Gender	3.0
COM 220	Introduction to Communication Research	3.0
	Humanities/Fine Arts elective	3.0
	Science elective	3.0
<i>Term credits</i>		<i>15.0</i>
Term 5		Credits
COM 210	Theory and Models of Communication	3.0
ANTH 380	Special Topics in Anthropology: Ethnographic Methods	3.0
SOC 250	Research Methods I	3.0
	Humanities/Fine Arts elective	3.0
	Science elective	3.0
<i>Term credits</i>		<i>15.0</i>
Term 6		Credits
ANTH 310	Societies in Transition	3.0
LING 101	Introduction to Linguistics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
ANTH 390	Seminar in Ethnography	3.0
	Anthropology program requirement ¹	3.0
<i>Term credits</i>		<i>15.0</i>
1	See the Degree requirements page for a list of Anthropology program requirements.	
Term 7		Credits
ANTH 330	Media Anthropology	3.0
	Diversity Studies elective	3.0
	Humanities/Fine Arts elective	3.0

	International Studies elective	3.0
COM 230	Techniques of Speaking	3.0
or		
COM 260 WI	Fundamentals of Journalism	3.0
or		
COM 280	Public Relations	3.0
or		
COM 375	Grant Writing	3.0
	<i>Term credits</i>	15.0
Term 8		Credits
ANTH 390	Seminar in Ethnography	3.0
	Two Anthropology program requirements	6.0
	Elective	4.0
COM 230	Techniques of Speaking	3.0
or		
COM 260 WI	Fundamentals of Journalism	3.0
or		
COM 280	Public Relations	3.0
or		
COM 375	Grant Writing	3.0
	<i>Term credits</i>	16.0
Term 9		Credits
	Two Anthropology program requirements	6.0
	Two electives	6.0
	International Studies elective	3.0
	<i>Term credits</i>	15.0
Term 10		Credits
ANTH 410	Cultural Theory	3.0
COM 355	Ethnography of Communication	3.0
	Two Anthropology program requirements	6.0
	Two electives	6.0
	<i>Term credits</i>	18.0
Term 11		Credits
	Two Anthropology program requirements	6.0
	Two electives	6.0
	Social and Behavioral Sciences elective	3.0-4.0
	<i>Term credits</i>	15.0-16.0
Term 12		Credits
ANTH 390	Seminar in Ethnography	3.0
	Anthropology program requirement	3.0
	Three electives	9.0
	<i>Term credits</i>	15.0
Total credits (minimum)		182.0



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Biological Sciences

The biological sciences encompass many fields. Biologists study the structure and functions of living organisms from the individual cell to the full organism, and collectively to the community level. Discoveries in the biological sciences influence many aspects of our daily lives and have become the foundation of most new developments of the new century. In the past two decades, advances in molecular biology and genetics have been rapid, opening many new, exciting career opportunities in the fields of biotechnology and genetic engineering. Biologists can pursue a variety of options including careers in medicine, dentistry, veterinary medicine or other health-related areas; in research or commercial laboratories; in various private and government agencies; and in teaching. In fact, more than 100 different occupations have been listed for biologists.

The bioscience major resides in the [Department of Bioscience and Biotechnology](#). Students earn a bachelor's degree in the biological sciences and are prepared for technical careers in research or commercial laboratories, or for professional schools or graduate study. Graduates in the biological sciences are in demand and enjoy a high placement rate with competitive salaries. Graduates with a degree in the biological sciences work for pharmaceutical companies, medical research laboratories, or biotechnology companies, or in government laboratories.

The undergraduate curriculum was developed with support from a National Science Foundation grant. Our nationally recognized curriculum emphasizes laboratory experiences in which students work in teams to learn scientific principles by designing focused research projects. During their freshman and sophomore years, majors in biological sciences participate in the Enhanced Bioscience Curriculum (EBE) program, an integrated curricular approach where students spend five hours per week in lab learning how to participate in the scientific process. This unique curricular approach is extended into the bioscience upper-level required courses in biochemistry, developmental biology, physiology, and advanced cell biology. In addition to the foundation curriculum, with its focus on basic bioscience principles, students select elective courses in their areas of interest. The goal of the program is to give students the knowledge, tools, and skills of the bioscientist necessary to face the challenges of the 21st century.

The course requirements identifies required support courses in chemistry, physics, mathematics, humanities, and science and human affairs. With proper selection of electives, students can meet teacher certification requirements or complete a minor in another field. Students are encouraged to consult frequently with their academic adviser for curriculum planning.

Co-op/internship employment is an option for biological sciences students. The major offers three distinct plans:

Five-year option with co-op/internship experience: This option allows for the greatest amount of employment experience, with three distinct six-month periods of employment included with studies. After the start of the sophomore year, students study or work through all terms, including summer.

Four-year option with one co-op/internship experience: The degree includes just one six-month period of full-time employment. After the start of sophomore year, students study or work through all terms, including summer.

Four-year option without co-op experience: The degree can be completed in four years without co-op/internship employment. Students are not required to pursue studies during any of the summer terms.



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Biological Sciences

Bachelor of Science: 187.5 credits

Degree Requirements

Bioscience required courses		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 201	Human Physiology I	4.0
BIO 202	Human Physiology Laboratory	2.0
BIO 203	Human Physiology II	4.0
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 270	Developmental Biology	3.0
BIO 271	Developmental Biology Laboratory	2.0
BIO 311	Metabolism	4.0
BIO 306	Biochemistry Laboratory	2.0
BIO 404	Structure and Function of Biomolecules	4.0
BIO 406	Computational Biochemistry Laboratory	2.0
BIO 432 WI	Advanced Cell Biology	5.0
BIO 460	Evolution	3.0
BIO 471	Seminar in Biological Science	2.0
BIO 472	Seminar in Biological Science	2.0
BIO 473	Seminar in Biological Science	2.0
Bioscience electives*		15.0

*Students must select at least five courses from their area of interest.

Mathematics and statistics courses		Credits
BIO 440	Biometry	3.0
BIO 441	Data Analysis in the Biosciences	3.0
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
MATH 239	Intermediate Calculus	4.0
or		

MATH 111	Calculus A	3.0
MATH 112	Calculus B	3.0
MATH 113	Calculus C	3.0
MATH 123	Calculus III	4.0

or

MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0

Physical sciences courses		Credits
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
CHEM 103	General Chemistry III	5.0
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 244	Organic Chemistry I Laboratory	3.0
CHEM 245	Organic Chemistry Laboratory II	3.0
PHYS 152	Physics for Life Sciences I	4.5
PHYS 153	Physics for Life Sciences II	4.5

Humanities and social science courses		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Writing	3.0
PHIL 251	Ethics	3.0
UNIV 101	The Drexel Experience	2.0
Humanities and social sciences electives		6.0
Science, technology, and human affairs elective		3.0

Other courses		Credits
Free electives*		21.0

* Students can choose from a variety of course offerings to best meet their academic interests. The program also provides opportunities for qualified students to take research credits (through permission of department), allowing them to carry out a research project with a faculty member. CHEM 256 (Physical Chemistry for the Biosciences) is highly recommended as an elective for bioscience majors.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Biological Sciences

Bachelor of Science Degree

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Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
BIO 121	Physiology of Nutrition	4.5
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		16.5
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
BIO 122	Cells and Genetics	4.5
UNIV 101	The Drexel Experience	1.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
BIO 123	Organismal Diversity and Ecology	4.5
MATH 123	Calculus III	4.0
or		
MATH 239	Intermediate Calculus	4.0
<i>Term credits</i>		16.5
Term 4		Credits
CHEM 241	Organic Chemistry I	4.0
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques in Molecular Biology	2.5
PHYS 152	Physics for Life Science I	4.5
Elective		3.0
<i>Term credits</i>		17.0
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
PHYS 153	Physics for Life Science II	4.5
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques in Cell Biology	2.5
<i>Term credits</i>		17.0
Term 6		Credits
BIO 201	Human Physiology I	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry Lab II	3.0
BIO 270	Developmental Biology	3.0
BIO 271	Developmental Biology Laboratory	2.0

	<i>Term credits</i>	15.0
Term 7		Credits
BIO 203	Human Physiology II	4.0
PHIL 251	Ethics	3.0
BIO 202	Human Physiology Laboratory I	2.0
	Bioscience elective	3.0
	Humanities/Social Science elective	3.0
	<i>Term credits</i>	15.0
Term 8		Credits
BIO 440	Biometry	3.0
COM 230	Techniques of Speaking	3.0
BIO 311	Metabolism	4.0
	Bioscience elective	3.0
	Science, Technology, and Human Affairs elective	3.0
	<i>Term credits</i>	16.0
Term 9		Credits
BIO 441	Data Analysis in the Biosciences	3.0
COM 310 WI	Technical Communication	3.0
BIO 306	Biochemistry Laboratory	2.0
	Bioscience elective	3.0
	Elective	3.0
	<i>Term credits</i>	14.0
Term 10		Credits
BIO 404	Structure and Function of Biomolecules	4.0
BIO 471	Seminar in Biological Science	2.0
	Bioscience elective	3.0
	Elective	3.0
	Humanities/Social Science elective	3.0
	<i>Term credits</i>	15.0
Term 11		Credits
BIO 432 WI	Advanced Cell Biology	5.0
BIO 472	Seminar in Bioscience	2.0
	Bioscience elective	3.0
	Two electives	6.0
	<i>Term credits</i>	16.0
Term 12		Credits
BIO 460	Evolution	3.0
BIO 406	Computational Biochemistry Laboratory	2.0
BIO 473	Seminar in Bioscience	2.0
	Bioscience elective	3.0
	Elective	3.0
	<i>Term credits</i>	13.0
Total credits (minimum)		187.5



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Chemistry

About the Major

Each student plans a course of study and selects electives in consultation with an advisor in the [Chemistry Department](#). Students are required to take two courses, or 6 credits, of liberal studies electives and a minimum of 6 credits of technical electives, such as biological science, mathematics, geology, accounting, law, and advanced chemistry. As part of the latter, following the ninth term in college, students often select an integrated three-term sequence of advanced courses in chemistry.

Students who show initiative and laboratory ability are encouraged to select a research problem and/or other advanced courses in chemistry during the junior and senior years. Most graduate courses in chemistry are open to qualified seniors. Prerequisites and descriptions of available graduate courses appear in the graduate catalog.

Some knowledge is required of a foreign language in which a significant body of chemical literature exists. Students generally elect German, French, or Russian.

Both a five year co-op degree and a four-year non-co-op degree are offered.



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Chemistry

Bachelor of Science Degree: 190.0 credits

Degree Requirements, B.S. Program

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
Foreign language courses		8.0

Chemistry requirements

CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
CHEM 103	General Chemistry III	5.0
CHEM 230	Quantitative Analysis	3.0
CHEM 231 WI	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 244	Organic Chemistry Laboratory I	3.0
CHEM 245	Organic Chemistry Laboratory II	3.0
CHEM 251	Physical Chemistry I	3.0
CHEM 346	Qualitative Organic Chemistry	5.5
CHEC 352	Physical Chemistry and Applications II	4.0
CHEC 353	Physical Chemistry and Applications III	4.0
CHEM 354	Physical Chemistry IV	3.0
CHEM 357 WI	Physical Chemistry I Laboratory	2.5
CHEM 358	Physical Chemistry II Laboratory	2.5
CHEM 367	Chemical Information Retrieval	3.0
CHEM 420	Molecular Symmetry and Group Theory Applied to Chemistry	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 422	Inorganic Chemistry II	3.0
CHEM 423	Inorganic Chemistry Laboratory	4.0
CHEM 430	Analytical Chemistry I	3.0

Biochemistry requirement

Students select one lecture and one lab course from the choices below. Students may also choose to take the two lecture courses (BIO 404 and BIO 311) rather than a lecture/laboratory combination.

Biochemistry lecture options:

BIO 404	Structure and Function of Biomolecules	4.0
BIO 311	Metabolism	4.0

Biochemistry laboratory options:

BIO 306	Biochemistry Laboratory	2.0
BIO 406	Computational Biochemistry Laboratory	2.0

Computer/mathematics requirements

PHYS 480	Special Topics: Computer Programming	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0

Physics requirements

PHYS 111	Physics I	4.5
PHYS 112	Physics II	4.5
PHYS 211	Physics III	4.5

Electives

	Technical electives*	6.0
	Liberal studies electives*	6.0
	Free electives	21.0

*Technical electives are defined as 200+ level courses from Science, Mathematics, Business, Engineering or Information Studies. Liberal studies electives are defined as courses (at any level) from all other areas.

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Recommended Plan of Study

BS Chemistry

Bachelor of Science Degree

[5-yr co-op](#)

Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
PHYS 480	Special Topics in Physics: Computer Programming	3.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 111	Physics I	4.5
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 112	Physics II	4.5
<i>Term credits</i>		16.5
Term 4		Credits
CHEM 230	Quantitative Analysis ¹	3.0
CHEM 231 WI	Quantitative Analysis Lab	2.0
CHEM 241	Organic Chemistry I	4.0
MATH 200	Calculus IV	4.0
PHYS 211	Physics III	4.5
<i>Term credits</i>		17.5
1 CHEM 230 and CHEM 231 must be taken concurrently.		
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
CHEM 251	Physical Chemistry I	3.0
MATH 201	Linear Algebra	4.0
	Elective	3.0
<i>Term credits</i>		17.0
Term 6		Credits
CHEC 352	Physical Chemistry and Applications II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry Lab II	3.0
CHEM 357 WI	Physical Chemistry Lab I	2.5
MATH 210	Differential Equations	4.0
<i>Term credits</i>		16.5
Term 7		Credits
CHEC 353	Physical Chemistry and Applications III	4.0
CHEM 358	Physical Chemistry Lab II	2.5
	Three electives	9.0

	<i>Term credits</i>	15.5
Term 8		Credits
CHEM 421	Inorganic Chemistry I	3.0
CHEM 430	Analytical Chemistry I	3.0
CHEM 367	Chemical Info Retrieval	3.0
	Elective	3.0-4.0
	Language I	4.0
	<i>Term credits</i>	16.0-17.0
Term 9		Credits
CHEM 420	Mol. Sym. & Group Theory/Chem	3.0
CHEM 431 WI	Analytical Chemistry II	4.0
	Two electives	6.0
	Language II	4.0
	<i>Term credits</i>	17.0
Term 10		Credits
CHEM 346	Qualitative Organic Lab	5.5
CHEM 493	Senior Research Project	3.0
	Elective	3.0
BIO 311	Metabolism ¹	4.0
or		
BIO 404	Structure and Function of Biomolecules	4.0
	<i>Term credits</i>	15.5
1	To fulfill the biochemistry requirement, students should take a combination of one lecture and one lab course from the choice of BIO 404 Structure and Function of Biomolecules; BIO 311 Metabolism; Bio 306 Biochemistry Laboratory; and BIO 406 Computational Biochemistry Laboratory. Students may also choose to take the two lecture courses (BIO 404 and BIO 311) rather than a lecture/laboratory combination.	
Term 11		Credits
CHEM 493	Senior Research Project	3.0
	Three electives	9.0
BIO 306	Biochemistry Laboratory	2.0
or		
BIO 406	Computational Biochemistry Laboratory	2.0
	<i>Term credits</i>	14.0
Term 12		Credits
CHEM 354	Physical Chemistry IV	3.0
CHEM 422	Inorganic Chemistry II	3.0
CHEM 425	Inorganic Chemistry Lab	4.0
CHEM 493	Senior Research Project	3.0
	<i>Term credits</i>	13.0
Total credits (minimum)		190.0

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Recommended Plan of Study

BS Chemistry

Bachelor of Science Degree

[4-yr non-co-op](#)

Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
PHYS 480	Special Topics in Physics: Computer Programming	3.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 111	Physics I	4.5
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 112	Physics II	4.5
<i>Term credits</i>		16.5
Term 4		Credits
CHEM 230	Quantitative Analysis ¹	3.0
CHEM 231 WI	Quantitative Analysis Lab	2.0
CHEM 241	Organic Chemistry I	4.0
MATH 200	Calculus IV	4.0
PHYS 211	Physics III	4.5
<i>Term credits</i>		17.5
1 CHEM 230 and CHEM 231 must be taken concurrently.		
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
CHEM 251	Physical Chemistry I	3.0
MATH 201	Linear Algebra	4.0
	Elective	3.0
<i>Term credits</i>		17.0
Term 6		Credits
CHEM 352	Physical Chemistry and Applications II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry Lab II	3.0
CHEM 357 WI	Physical Chemistry Lab I	2.5
MATH 210	Differential Equations	4.0
<i>Term credits</i>		16.5
Term 7		Credits
CHEM 421	Inorganic Chemistry I	3.0
CHEM 430	Analytical Chemistry I	3.0
CHEM 367	Chemical Info Retrieval	3.0

	Elective	3.0
	Language I	4.0
	<i>Term credits</i>	16.0
Term 8		Credits
CHEC 353	Physical Chemistry and Applications III	4.0
CHEM 358	Physical Chemistry Lab II	2.5
CHEM 420	Mol. Sym. & Group Theory/Chem	3.0
CHEM 431 WI	Analytical Chemistry II	4.0
	Language II	4.0
	<i>Term credits</i>	17.5
Term 9		Credits
	Electives	15.0
	<i>Term credits</i>	15.0
Term 10		Credits
CHEM 346	Qualitative Organic Lab	5.5
CHEM 493	Senior Research Project	3.0
	Elective	3.0
BIO 311	Metabolism	4.0
or		
BIO 404	Structure and Function of Biomolecules ¹	4.0
	<i>Term credits</i>	15.5
1	To fulfill the biochemistry requirement, students should take a combination of one lecture and one lab course from the choice of BIO 404 Structure and Function of Biomolecules; BIO 311 Metabolism; Bio 306 Biochemistry Laboratory; and BIO 406 Computational Biochemistry Laboratory. Students may also choose to take the two lecture courses (BIO 404 and BIO 311) rather than a lecture/laboratory combination.	
Term 11		Credits
CHEM 493	Senior Research Project	3.0
	Three electives	9.0
BIO 306	Biochemistry Laboratory	2.0
or		
BIO 406	Computational Biochemistry Laboratory	2.0
	<i>Term credits</i>	14.0
Term 12		Credits
CHEM 354	Physical Chemistry IV	3.0
CHEM 422	Inorganic Chemistry II	3.0
CHEM 425	Inorganic Chemistry Lab	4.0
CHEM 493	Senior Research Project	3.0
	<i>Term credits</i>	13.0
Total credits (minimum)		190.0



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Communication

About the Curriculum

The [Culture and Communication](#) department offers majors in communication, with specializations in:

- [Corporate and Public Relations](#)
- [Technical and Science Communication](#)
- [Global Journalism](#)

In addition, the department offers majors in [Sociology](#), [Anthropology](#), and [Criminal Justice](#).

The department is committed to helping students become broadly educated and professionally competent individuals. Students are exposed to a variety of media and are guided in the development of their interpretive and expressive skills.

All Communication majors take a common core of courses that emphasize communication theory and methods. Then, they specialize in one of three concentrations. Students in the Corporate and Public Relations concentration pursue careers in public relations, corporate training, and corporate communication. Those who choose the Technical and Science Communication concentration go on to work in technical writing, science writing, publishing, and software and hardware documentation. Global Journalism students pursue careers in journalism and news. Many communication graduates also go on to law school, to business school for an MBA, or to graduate school.

Students who elect the Corporate and Public Relations concentration have the option of pursuing either a Bachelor of Arts degree or a Bachelor of Science degree. Students who elect the Technical and Science Communication concentration must pursue the Bachelor of Science degree. Students in Global Journalism must complete the requirements for the Bachelor of Arts degree.

The department also offers minors in [Anthropology](#), [Communication](#), [Criminal Justice](#) and [Sociology](#), each of which requires 24 credit hours of study.



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Corporate and Public Relations

About the Concentration

The concentration in Corporate and Public Relations covers a broad range of activities that help an organization and its publics communicate with one another. The field includes public relations, media relations, financial writing, publication design, employee and customer communication, desktop publishing, and government relations.

Skills in this field run the gamut from written to spoken to visual communication. A corporate communication specialist might be called on to write articles for an in-house newsletter, to research and write an annual report to shareholders, to publicize a special event, to write a speech for an executive, to plan a press conference, to develop a media plan for an organization, or to script a video for an employee orientation session.



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Corporate and Public Relations

Bachelor of Arts Degree in Communication: 182.0 credits

Degree Requirements

General requirements

	Credits
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
COM 150 Mass Media and Society	3.0
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
SOC 101 Introduction to Sociology	3.0
UNIV 101 The Drexel Experience	2.0
Two Mathematics courses	6.0-8.0
Two Science courses	6.0-8.0
Foreign language courses*	8.0
Three Humanities and Fine Arts electives	9.0
Two Social and Behavioral Sciences electives	6.0
Two International Studies electives	6.0
Two Studies in Diversity electives	6.0

*At least one foreign language course must be at the 200-level.

Communication core requirements

Theory Sequence

ANTH 410 Cultural Theory	3.0
COM 111 Introduction to Corporate Communication	3.0
COM 210 Theory and Models of Communication	3.0
SOC 260 Classical Social Theory	3.0

Methods Sequence

COM 220 Introduction to Communication Research	3.0
SOC 250 Research Methods	3.0
SOC 364 Computer-Assisted Data Analysis I	3.0

Additional Core Requirements

COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 491	Senior Project in Communication I	3.0
COM 492	Senior Project in Communication II	3.0
PHIL 305	Communication Ethics	3.0

Corporate and Public Relations concentration requirements

COM 260 WI	Fundamentals of Journalism	3.0
COM 270 WI	Business Communication	3.0
COM 280	Public Relations	3.0
COM 281	Advanced Public Relations	3.0
COM 330	Professional Presentations	3.0
COM 380	Special Studies in Communication Theory	3.0

Other program requirements

MKTG 311	Introduction to Marketing Management	3.0
ORGB 300	Organizational Behavior	4.0
PHIL 105	Critical Reasoning	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	

One of the following History courses:

HIST 220	History of American Business	3.0
HIST 280	History of Science I	3.0
HIST 281	History of Science II	3.0
HIST 285	Technology in Historical Perspective	3.0

Two of the following Audio-Visual courses:

COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
COM 530	Technical and Science Photography	3.0
COM 540	Technical and Science Graphics	3.0
COM 550	Video Production for Science and Technology	3.0
FMVD 110	Shooting and Lighting	3.0
FMVD 125	Basic Television Studio	3.0
SCRP 270	Scriptwriting I	3.0
SCRP 285	Writing for Nonfiction Film and Video	3.0
PHTO 110	Basic Photography	3.0

Additional Electives

	Communication electives (Any three courses with a COM rubric at the 300-level or higher)	9.0
	Culture electives (Any two courses with a SOC or ANTH rubric. At least one must be at the 200-level or higher.)	6.0
	Free electives	24.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA Communication

Corporate and Public Relations Concentration

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
<i>Term credits</i>		14.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		14.0-15.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
COM 210	Theory and Models of Communication	3.0
ENGL 103	Analytical Writing and Reading	3.0
COM 280	Public Relations	3.0
PSY 101	General Psychology I	3.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		18.0-19.0
Term 4		Credits
PHIL 105	Critical Reasoning	3.0
	Science elective	3.0-4.0
	Two Sociology/Anthropology electives ¹	6.0
	Elective	3.0
or		
	Foreign language course	4.0
<i>Term credits</i>		15.0-16.0
1	Two out of the three required culture electives with a SOC or ANTH rubric must be at the 200-level or higher.	
Term 5		Credits
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 260 WI	Fundamentals of Journalism	3.0
COM 220	Introduction to Communication Research	3.0
	Science elective	3.0-4.0
<i>Term credits</i>		15.0-16.0
Term 6		Credits
COM 270 WI	Business Communication	3.0
COM 281	Advanced Public Relations	3.0
SOC 260 WI	Classical Social Theory	3.0
	Diversity Studies elective	3.0
	Humanities/Fine Arts elective	3.0
	International Studies elective	3.0

	<i>Term credits</i>	<i>18.0</i>
Term 7		Credits
SOC 250	Research Methods I	3.0
	Diversity Studies elective	3.0
	International Studies elective	3.0
	Sociology/Anthropology elective	3.0
	<i>Term credits</i>	<i>12.0</i>
Term 8		Credits
ORGB 300	Organizational Behavior	4.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	Audio-Visual elective ¹	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
	<i>Term credits</i>	<i>16.0</i>
1	Select either: COM 335 Writing for the World Wide Web; COM 340 Desktop Publishing; COM 530 Technical and Science Photography; COM 540 Technical and Science Graphics; COM 550 Video Production for Science and Technology; FMVD 110 Shooting and Lighting; FMVD 125 Basic Television Studio; SCRIP 270 Scriptwriting I; SCRIP 285 Writing for Nonfiction Film and Video; or PHTO 110 Basic Photography.	
Term 9		Credits
COM 330	Professional Presentations	3.0
MKTG 311	Introduction to Marketing Management	3.0
	Humanities/Fine Arts elective	3.0
	Audio-Visual elective ¹	3.0
HIST 220	History of American Business	3.0
or		
HIST 280	History of Science I	3.0
or		
HIST 281	History of Science II	3.0
or		
HIST 285	Technology in Historical Perspective	3.0
	<i>Term credits</i>	<i>15.0</i>
1	Select either: COM 335 Writing for the World Wide Web; COM 340 Desktop Publishing; COM 530 Technical and Science Photography; COM 540 Technical and Science Graphics; COM 550 Video Production for Science and Technology; FMVD 110 Shooting and Lighting; FMVD 125 Basic Television Studio; SCRIP 270 Scriptwriting I; SCRIP 285 Writing for Nonfiction Film and Video; or PHTO 110 Basic Photography.	
Term 10		Credits
ANTH 410	Cultural Theory	3.0
COM 380	Special Topics in Communication Theory	3.0
	Communication elective	3.0
	Elective	3.0
	Sociology/Anthropology elective	3.0
	<i>Term credits</i>	<i>15.0</i>
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
	Communication elective	3.0
	Two electives	6.0
	Social and Behavioral Sciences elective	3.0-4.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 12		Credits
COM 492	Senior Project in Communication II	3.0
	Communication elective	3.0
	Three electives	9.0
	<i>Term credits</i>	<i>15.0</i>
Total credits (minimum)		182.0



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Corporate and Public Relations

Bachelor of Science Degree in Communication: 182.0 credits

Degree Requirements

General requirements

Credits

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
ANTH 110	The Human Past	
COM 150	Mass Media and Society	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	4.0
	Economics elective	4.0
	Fine Arts elective	3.0
	Two History electives	6.0
	Philosophy elective	3.0

One of the following Science sequences:

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
or		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

One of the following Math sequences:

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0

One English course from each of the following sets:

ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	

ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	

Communication core requirements

Theory Sequence

ANTH 410	Cultural Theory	3.0
COM 111	Introduction to Corporate Communication	3.0
COM 210	Theory and Models of Communication	3.0
SOC 260	Classical Social Theory	3.0

Methods Sequence

COM 220	Introduction to Communication Research	3.0
SOC 250	Research Methods	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0

Additional Core Requirements

COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 491	Senior Project in Communication I	3.0
COM 492	Senior Project in Communication II	3.0
PHIL 305	Communication Ethics	3.0

Corporate and Public Relations concentration requirements

COM 260 WI	Fundamentals of Journalism	3.0
COM 270 WI	Business Communication	3.0
COM 280	Public Relations	3.0
COM 281	Advanced Public Relations	3.0
COM 330	Professional Presentations	3.0
COM 380	Special Studies in Communication Theory	3.0

Other program requirements

MKTG 311	Introduction to Marketing Management	3.0
ORGB 300	Organizational Behavior	4.0
PHIL 105	Critical Reasoning	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	

One of the following History courses:

HIST 220	History of American Business	3.0
HIST 280	History of Science I	3.0
HIST 281	History of Science II	3.0
HIST 285	Technology in Historical Perspective	3.0

Two of the following Audio-Visual courses:

COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
COM 530	Technical and Science Photography	3.0
COM 540	Technical and Science Graphics	3.0
COM 550	Video Production for Science and Technology	3.0
FMVD 110	Shooting and Lighting	3.0
FMVD 125	Basic Television Studio	3.0
SCRP 270	Scriptwriting I	3.0
SCRP 285	Writing for Nonfiction Film and Video	3.0
PHTO 110	Basic Photography	3.0

Additional Electives

Communication electives (Any three courses with a COM rubric at the 300-level or higher)	9.0
Culture electives (Any two courses with a SOC or ANTH rubric. At least one must be at the 200-level or higher.)	6.0
Free electives	26.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Prospective Students

Apply Online

Recommended Plan of Study

BS Communication

Corporate and Public Relations Concentration

Bachelor of Science Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		14.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	History elective	3.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		14.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 103	Analytical Writing and Reading	3.0
COM 280	Public Relations	3.0
PSY 101	General Psychology I	3.0
	History elective	3.0
<i>Term credits</i>		15.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
PHIL 105	Critical Reasoning	3.0
	Fine Arts elective	3.0
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202 WI	Romanticism to Modernism	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
<i>Term credits</i>		16.0
Term 5		Credits
COM 230	Techniques of Speaking	3.0
COM 260 WI	Fundamentals of Journalism	3.0
COM 220	Introduction to Communication Research	3.0
ENGL 204	Post-Colonial Literature II	3.0
or		
ENGL 203 WI	Post-Colonial Literature I	3.0
BIO 104	Biology II: Growth and Heredity	4.0

or		
CHEM 102	General Chemistry II	4.0
or		
PHYS 104	General Physics II	4.0
	<i>Term credits</i>	16.0
Term 6		Credits
COM 270 WI	Business Communication	3.0
ECON 201	Economics I	4.0
PSCI 100	Introduction to Political Science	4.0
COM 281	Advanced Public Relations	3.0
SOC 260 WI	Classical Social Theory	3.0
	<i>Term credits</i>	17.0
Term 7		Credits
COM 240	New Technologies in Communication	3.0
SOC 250	Research Methods I	3.0
	Electives	5.0
	Sociology/Anthropology elective ¹	3.0
	Philosophy elective	3.0
	<i>Term credits</i>	17.0
1	A course with a SOC or ANTH rubric. One of the two required culture electives must be at the 200-level or higher.	
Term 8		Credits
ORGB 300	Organizational Behavior	4.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	Audio-Visual elective ¹	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
	<i>Term credits</i>	16.0
1	Select either: COM 335 Writing for the World Wide Web; COM 340 Desktop Publishing; COM 530 Technical and Science Photography; COM 540 Technical and Science Graphics; COM 550 Video Production for Science and Technology; FMVD 110 Shooting and Lighting; FMVD 125 Basic Television Studio; SCRIP 270 Scriptwriting I; SCRIP 285 Writing for Nonfiction Film and Video; or PHTO 110 Basic Photography.	
Term 9		Credits
COM 330	Professional Presentations	3.0
	History & Politics elective ¹	3.0
	Humanities/Fine Arts elective	3.0
	Audio-Visual elective ²	3.0
MKTG 311	Introduction to Marketing Management	3.0
or		
MKTG 301 WI	Introduction to Marketing Management	5.0
	<i>Term credits</i>	15.0
1	Select either: HIST 220 History of American Business; HIST 280 History of Science; HIST 281 History of Science II; or HIST 285 Technology in Historical Perspective.	
2	Select either: COM 335 Writing for the World Wide Web; COM 340 Desktop Publishing; COM 530 Technical and Science Photography; COM 540 Technical and Science Graphics; COM 550 Video Production for Science and Technology; FMVD 110 Shooting and Lighting; FMVD 125 Basic Television Studio; SCRIP 270 Scriptwriting I; SCRIP 285 Writing for Nonfiction Film and Video; or PHTO 110 Basic Photography.	
Term 10		Credits
ANTH 410	Cultural Theory	3.0
COM 380	Special Topics in Communication Theory	3.0
	Communication elective ¹	3.0
	Elective	3.0
	Sociology/Anthropology elective ²	3.0
	<i>Term credits</i>	15.0
1	Any course with a COM rubric at the 300-level or higher.	
2	A course with a SOC or ANTH rubric. One of the two required culture electives must be at the 200-level or higher.	
Term 11		Credits
COM 491	Senior Project in Communication I	3.0

	Communication elective ¹	3.0
	Three electives	9.0
	<i>Term credits</i>	15.0
1	Any course with a COM rubric at the 300-level or higher.	
	Term 12	Credits
COM 492	Senior Project in Communication II	3.0
	Communication elective ¹	3.0
	Two electives	6.0
	<i>Term credits</i>	12.0
1	Any course with a COM rubric at the 300-level or higher.	
	Total credits (minimum)	182.0



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Prospective Students

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Global Journalism

Bachelor of Arts Degree in Communication: 182.0 credits

Degree Requirements

General requirements	Credits
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
or	
ANTH 110 The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
COM 150 Mass Media and Society	3.0
COM 345 Intercultural Communication	3.0
or	
ANTH 312 Approaches to Intercultural Behavior	
COM 360 International Communication	3.0
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
SOC 101 Introduction to Sociology	3.0
UNIV 101 The Drexel Experience	2.0
Two Mathematics courses	6.0-8.0
Two Science courses	6.0-8.0
Foreign language courses*	8.0
Three Humanities and Fine Arts electives	9.0
Two Social and Behavioral Sciences electives	6.0
International Studies elective	3.0
Studies in Diversity elective	3.0

*At least one foreign language course must be at the 200-level.

Communication core requirements	Credits
<i>Theory Sequence</i>	
ANTH 410 Cultural Theory	3.0
COM 111 Introduction to Corporate Communication	3.0
COM 210 Theory and Models of Communication	3.0
SOC 260 Classical Social Theory	3.0

Methods Sequence

COM 220	Introduction to Communication Research	3.0
SOC 250	Research Methods	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0

Additional Core Requirements

COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 491	Senior Project in Communication I	3.0
COM 492	Senior Project in Communication II	3.0
PHIL 305	Communication Ethics	3.0

Global Journalism concentration requirements		Credits
COM 260 WI	Fundamentals of Journalism	3.0
COM 280	Public Relations	3.0
COM 300 WI	Computer-Assisted Journalism	3.0
COM 315	Advanced Journalism	3.0
COM 365	Journalists, the Courts, and the Law	3.0
COM 380	Special Studies in Communication Theory	3.0
COM 390 WI	Global Journalism	3.0

Other program requirements

Select one course from the following sets of courses:

Linguistics

LING 101	Introduction to Linguistics	3.0
LING 102	Language and Society	3.0

Political Science

PSCI 150	International Politics	4.0
PSCI 255	International Political Economy	4.0

International Studies

BLAW 340	International Business Law	4.0
IAS 359	Culture and Values	3.0
COM 361	International Public Relations	3.0
SOC 340	Globalization	3.0
COM 335	Writing for the World Wide Web	3.0

Audio-Visual

COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
FMVD 110	Shooting and Lighting	3.0
SCRIP 270	Scriptwriting I	3.0
SCRIP 285	Writing for Nonfiction Film and Video	3.0
PHTO 110	Basic Photography	3.0

Additional Electives

Communication electives (Any four courses with a COM rubric at the 300-level or higher)	12.0
Culture electives (Any three courses with a SOC or ANTH rubric. At least two must be at the 200-level or higher.)	9.0
Free electives	25.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Prospective Students

Apply Online

Recommended Plan of Study

BA Communication

Global Journalism Concentration

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		<i>17.0-18.0</i>
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics elective	3.0-4.0
<i>Term credits</i>		<i>14.0-15.0</i>
Term 3		Credits
COM 210	Theory and Models of Communication	3.0
ENGL 103	Analytical Writing and Reading	3.0
SOC 260 WI	Classical Social Theory	3.0
	Foreign language course	3.0-4.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
ANTH 110	The Human Past	3.0
<i>Term credits</i>		<i>15.0-16.0</i>
Term 4		Credits
COM 220	Introduction to Communication Research	3.0
	Science elective	3.0-4.0
	Two Sociology/Anthropology electives	6.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
<i>Term credits</i>		<i>15.0-16.0</i>
Term 5		Credits
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 260 WI	Fundamentals of Journalism	3.0
SOC 250	Research Methods I	3.0
	Science elective	3.0-4.0
<i>Term credits</i>		<i>15.0-16.0</i>
Term 6		Credits
COM 300 WI	Computer-Assisted Journalism	3.0
COM 360	International Communication	3.0
	Humanities/Fine Arts elective	3.0
	Sociology/Anthropology elective ¹	3.0
	Audio-Visual elective ²	3.0
<i>Term credits</i>		<i>15.0</i>

1	A course with a SOC or ANTH rubric. Two of the three required culture electives must be at the 200-level or higher.	
2	Students select either COM 335 Writing for the World Wide Web; COM 340 Desktop Publishing; FMVD 110 Shooting and Lighting; SCRIP 270 Scriptwriting I; SCRIP 285 Writing for Nonfiction Film and Video; or PHTO 110 Basic Photography.	
Term 7		Credits
SOC 364	Computer-Assisted Data Analysis I	3.0
COM 280	Public Relations	3.0
	Communication elective ¹	3.0
	Diversity Studies elective	3.0
	Social and Behavioral Sciences elective	3.0
<i>Term credits</i>		15.0
1	Students select any course with a COM rubric at the 300-level or higher.	
Term 8		Credits
COM 315	Advanced Journalism	3.0
	Two Communications electives ¹	6.0
	Social and Behavioral Sciences elective	3.0-4.0
BLAW 340	International Business Law	4.0
or		
IAS 359	Culture & Values	3.0
or		
COM 361	International Public Relations	3.0
or		
SOC 340	Globalization	3.0
<i>Term credits</i>		15.0-16.0
1	Students select courses with a COM rubric at the 300-level or higher.	
Term 9		Credits
PHIL 305	Communication Ethics	3.0
COM 380	Special Topics in Communication Theory	3.0
	Humanities/Fine Arts elective	3.0
	International Studies elective	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
<i>Term credits</i>		15.0
Term 10		Credits
COM 365	Journalists, the Courts, and the Law	3.0
	Two electives	6.0
	Humanities/Fine Arts elective	3.0
PSCI 255	International Political Economy	4.0
or		
PSCI 255	International Political Economy	4.0
<i>Term credits</i>		16.0
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
	Communication elective ¹	3.0
	Three electives	9.0
<i>Term credits</i>		15.0
1	Any course with a COM rubric at the 300-level or higher.	
Term 12		Credits
ANTH 410	Cultural Theory	3.0
COM 390 WI	Global Journalism	3.0
COM 492	Senior Project in Communication II	3.0
	Two electives	6.0
<i>Term credits</i>		15.0
Total credits (minimum)		182.0



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Prospective Students

Apply Online

Technical and Science Communication

About the Concentration

In this concentration, students learn to communicate scientific and technical information to various audiences. The program combines courses that develop communication skills with courses that enhance understanding of science and technology.

Students in this concentration find work in a wide range of areas, including providing written documentation for software or hardware products, developing materials for the Web, writing proposals, researching and composing materials to accompany pharmaceutical submissions to the FDA, and writing in the fields of general medicine or science.



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Prospective Students

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Technical and Science Communication

Bachelor of Science Degree in Communication: 182.0 credits

Degree Requirements

General requirements		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
ANTH 110	The Human Past	
COM 150	Mass Media and Society	3.0
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	2.0
	Economics elective	4.0
	Two History electives	6.0
	Fine Arts elective	3.0
	Philosophy elective	3.0

One of the following Science sequences:

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
or		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

One of the following Math sequences:

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0

One English course from each of the following sets:

ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	

ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	

Communication core requirements

Theory Sequence

ANTH 410	Cultural Theory	3.0
COM 111	Introduction to Corporate Communication	3.0
COM 210	Theory and Models of Communication	3.0
SOC 260	Classical Social Theory	3.0

Methods Sequence

COM 220	Introduction to Communication Research	3.0
SOC 250	Research Methods	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0

Additional Core Requirements

COM 230	Techniques of Speaking	3.0
COM 240	New Technologies in Communication	3.0
COM 491	Senior Project in Communication I	3.0
COM 492	Senior Project in Communication II	3.0
PHIL 305	Communication Ethics	3.0

Technical and Science concentration requirements

COM 310 WI	Technical Communication	3.0
COM 320 WI	Science Writing	3.0
COM 330	Professional Presentations	3.0
COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
COM 350 WI	Message Design and Evaluation	3.0
COM 375	Grant Writing	3.0
COM 420	Technical Editing	3.0

Other program requirements

HIST 280	History of Science I	3.0
or		
HIST 281	History of Science II	
or		
HIST 285	Technology in Historical Perspective	

INFO 101	Introduction to Information Technology	3.0
or		
INFO 110	Human-Computer Interaction	
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	
ENGL 300 WI	Literature and Science	3.0
or		
PHIL 361	Philosophy of Science	3.0

Additional Electives

	Communication electives (Any three courses with a COM rubric at the 300-level or higher)	9.0
	Culture electives (Any two courses with a SOC or ANTH rubric. At least one must be at the 200-level or higher.)	6.0
	Free electives	24.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Communication

Technical and Science Communication Concentration

Bachelor of Science Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	History elective	3.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		17.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	History elective	3.0
	Philosophy elective	3.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		17.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
CS 161	Introduction to Computing	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology I	3.0
<i>Term credits</i>		16.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
	Elective	3.0
	Fine Arts elective	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 111	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202 WI	Romanticism to Modernism	3.0
<i>Term credits</i>		16.0
Term 5		Credits
COM 230	Techniques of Speaking	3.0
COM 220	Introduction to Communication Research	3.0
ENGL 204	Post-Colonial Literature II	3.0
or		
ENGL 203 WI	Post-Colonial Literature I	3.0

BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 112	General Chemistry II	4.0
or		
PHYS 104	General Physics II	4.0
INFO 101	Introduction to Information Technology	3.0
or		
INFO 110	Human-Computer Interaction	3.0
<i>Term credits</i>		16.0
Term 6		Credits
COM 310 WI	Technical Communication	3.0
COM 340	Desktop Publishing	3.0
ECON 201	Economics I	4.0
SOC 260 WI	Classical Social Theory	3.0
Elective		3.0
<i>Term credits</i>		16.0
Term 7		Credits
COM 240	New Technologies in Communication	3.0
COM 330	Professional Presentations	3.0
COM 335	Writing for the World Wide Web	3.0
SOC 250	Research Methods I	3.0
Communication elective ¹		3.0
<i>Term credits</i>		15.0
1	Any course with a COM rubric at the 300-level or higher.	
Term 8		Credits
COM 320 WI	Science Writing	3.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
COM 375	Grant Writing	3.0
ENGL 300	Literature and Science	3.0
or		
PHIL 361	Philosophy of Science	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
<i>Term credits</i>		18.0
Term 9		Credits
Communication elective ¹		3.0
Two electives		6.0
HIST 280	History of Science I	3.0
or		
HIST 281	History of Science II	3.0
or		
HIST 285	Technology in Historical Perspective	3.0
PSY 330	Cognitive Psychology	3.0
or		
PSY 337	The Psychology of Human-Computer Interaction	3.0
<i>Term credits</i>		15.0
1	Any course with a COM rubric at the 300-level or higher.	
Term 10		Credits
ANTH 410	Cultural Theory	3.0
Communication elective ¹		3.0
Elective		3.0
Sociology/Anthropology elective ²		3.0
<i>Term credits</i>		12.0
1	Any course with a COM rubric at the 300-level or higher.	
2	A course with a SOC or ANTH rubric. One of the two required culture electives must be at the 200-level or higher.	
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
Two electives		6.0
Sociology/Anthropology elective ¹		3.0

	<i>Term credits</i>	<i>12.0</i>
1	A course with a SOC or ANTH rubric. One of the two required culture electives must be at the 200-level or higher.	
Term 12		Credits
COM 350 WI	Message Design and Evaluation	3.0
COM 420	Technical Editing	3.0
COM 492	Senior Project in Communication II	3.0
	Elective	3.0
	<i>Term credits</i>	<i>12.0</i>
Total credits (minimum)		182.0



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Criminal Justice

Issues of crime and justice affect every individual at some point in their lives if only as tax-paying citizens and voters. Criminal Justice legislation, policy and decision-making and matters of community safety and well being require well-educated professionals to administer, legislate, communicate, and implement the work of the Criminal Justice System. Students in Drexel's Criminal Justice program will be well prepared to assume these roles and responsibilities.

About the Curriculum

The required courses provide the essential foundation for further study in the various areas of criminal justice. Students will acquire theoretical and methodological skills as well as courses in written and oral communication so necessary for professional careers in this field. The students in Drexel's Criminal Justice program will also have a robust foundation in statistics, and computer applications. Additional required courses focus on the areas of forensic sciences, law and political and social sciences.

Program Goals

The goals for the criminal justice program include the following:

- To provide academic course work and supervised field experiences to prepare its graduates for a wide variety of careers in Criminal Justice.
- To provide excellent preparation for students planning to enter the study of law and law-related programs at the graduate level. Students interested in careers in Forensic Studies will be well prepared by majoring in Bioscience and Biotechnology or Chemistry with a Minor in Criminal Justice.
- To provide a strong foundation in theory and research as well as experiential learning opportunities primarily through structured internships, site visits and interaction with visiting guest professionals.



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Criminal Justice

Bachelor of Science Degree: 182.0 credits

Degree Requirements

General requirements Credits

UNIV 101	The Drexel Experience	2.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

One of the following math sequences:

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0

One of the following science sequences:

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
BIO 117	Bioscience III: Molecular and Cellular Genetics	5.5

or		
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
CS 161	Introduction to Computing	3.0
COM 150	Mass Media and Society	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
	Economics elective	4.0
	Fine Arts elective	3.0
	History electives	6.0
	Philosophy elective	3.0

One of the following English sequences:

ENGL 201	Renaissance to the Enlightenment	3.0
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ENGL 202 WI	Romanticism to Modernism	3.0
or		
ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/ Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/ Middle East	3.0

Criminal Justice Core Requirements

Justice Sequence:

SOC 115	Social Problems	3.0
SOC 204	Criminology	3.0
SOC 206	Criminal Justice	3.0
SOC 320 WI	Sociology of Deviant Behavior	3.0
SOC 360	Juvenile Justice	3.0

Methods Sequence:

COM 220	Introduction to Communications Research	3.0
SOC 250	Research Methods I	3.0
SOC 364	Data Analysis I	3.0

Theory Sequence:

SOC 460 WI	Contemporary Social Theory	3.0
COM 210	Theory and Models of Communication	3.0

Writing/Communication (Students must take a minimum of two of the following courses):

COM 310 WI	Technical Communication	3.0
COM 230	Techniques of Speaking	3.0
COM 375	Grant Writing	3.0

Students select at least one, but no more than two, courses from the following:

SOC 210	Race and Ethnic Relations	3.0
COM 345	Intercultural Communication	3.0
or		
ANTH 312	Intercultural Behavior	3.0

Other program requirements:

SOC 371	Criminal Justice Practicum	2.0 - 6.0
SOC 390	Internship in Criminal Justice	3.0 - 9.0
BLAW 342	Criminal Law	4.0
PSY 150	Introduction to Social Psychology	3.0
PSY 370	Forensic Psychology	3.0
PSCI 365	Politics, Law & Society	3.0
PHIL 330	Ethical Issues in Criminal Justice	3.0

Students select five of the following Sociology/Political Science electives:

SOC 120	Sociology of the Family	3.0
SOC 220	Wealth and Power	3.0

SOC 240	Urban Sociology	3.0
SOC 380	Special Topics in Sociology	3.0
PSCI 329	Theories of Justice	3.0
PSCI 360	The Constitution and the Judicial Process	3.0
PSCI 363	Civil Liberties	3.0
		35.0-38.0
Electives		
Free electives		35.0-38.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BS Criminal Justice

Bachelor of Science Degree

[4-yr non-co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
PSY 101	General Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		14.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
SOC 204	Criminology	3.0
UNIV 101	The Drexel Experience	1.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		14.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
SOC 115	Social Problems	3.0
SOC 206	Criminal Justice	3.0
<i>Term credits</i>		16.0
Term 4		Credits
COM 220	Introduction to Communication Research	3.0
	History elective	3.0
	Sociology/Political Science elective ¹	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	4.0
ANTH 312	Approaches to Intercultural Behavior	3.0
or		
SOC 210	Race and Ethnic Relations	3.0
or		
COM 345	Intercultural Communication	3.0
<i>Term credits</i>		16.0
1	See degree requirements .	
Term 5		Credits
COM 210	Theory and Models of Communication	3.0
SOC 250	Research Methods I	3.0
	History elective	3.0
	Sociology/Political Science elective ¹	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.0

or			
BIO 122	Cells and Genetics		4.5
	<i>Term credits</i>		16.0
1	See degree requirements .		
Term 6			Credits
SOC 364	Computer-Assisted Data Analysis I		3.0
PSY 150	Introduction to Social Psychology		3.0
	Economics elective		4.0
	Philosophy elective		3.0
ENGL 201	Renaissance to the Enlightenment		3.0
or			
ENGL 202 WI	Romanticism to Modernism		3.0
	<i>Term credits</i>		16.0
Term 7			Credits
PSY 370	Forensic Psychology		3.0
	Elective		4.0
	Fine Arts elective		3.0
	Sociology/Political Science elective ¹		3.0
COM 230	Techniques of Speaking		3.0
or			
COM 310 WI	Technical Communication		3.0
or			
COM 375	Grant Writing		3.0
	<i>Term credits</i>		16.0
1	See degree requirements .		
Term 8			Credits
CS 161	Introduction to Computing		3.0
PSCI 365	Politics, Law, and Justice		3.0
SOC 320 WI	Sociology of Deviant Behavior		3.0
SOC 360	Juvenile Justice		3.0
	Elective		3.0-4.0
	<i>Term credits</i>		15.0-16.0
Term 9			Credits
SOC 371	Criminal Justice Practicum		2.0-6.0
SOC 390	Internship in Criminal Justice		3.0-9.0
	Elective		4.0
COM 230	Techniques of Speaking		3.0
or			
COM 310 WI	Technical Communication		3.0
or			
COM 375	Grant Writing		3.0
	<i>Term credits</i>		12.0-22.0
Term 10			Credits
BLAW 342	Criminal Law		4.0
PHIL 330	Ethical Issues in Criminal Justice		3.0
	Two electives		6.0
	Sociology/Political Science elective ¹		3.0
	<i>Term credits</i>		16.0
1	See degree requirements .		
Term 11			Credits
SOC 492	Sociology Research Seminar III		4.0
	Two electives		6.0
	Sociology/Political Science elective ¹		3.0
ENGL 204	Post-Colonial Literature II		3.0
or			
ENGL 203 WI	Post-Colonial Literature I		3.0
	<i>Term credits</i>		16.0
1	See degree requirements .		
Term 12			Credits
SOC 460 WI	Contemporary Social Theory		3.0
	Four electives		12.0
	<i>Term credits</i>		15.0



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English and Philosophy

Specifically designed to engage students in critical thinking and applied writing skills, the English major offers a wide-ranging curriculum on British, American and World literatures and stresses the cultural, historical and political contexts that shape and affect literary production. The [Department of English and Philosophy](#) also offers variety of courses on periods and genres; creative writing; and the relationship between literature and the visual arts, science and technology.



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English

Bachelor of Arts Degree : 182.0 credits

Degree Requirements

University requirements		23.0 - 27.0 Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
Two mathematics courses		6.0-8.0
Two science courses		6.0-8.0

College requirements*	44.0 - 45.0 Credits
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Foreign language courses

Any two (2) consecutive courses (completing level 201)	8.0
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Humanities and fine arts: four(4) of the following courses

ARTH 101	History of Art I: Ancient to Medieval	3.0
ARTH 102	History of Art II: Renaissance to Modern	3.0
ARTH 103	History of Art III: Early Modern to Postmodernism	3.0
FMVD 150	American Classic Cinema	3.0
MUSC 130	Introduction to Music	3.0
MUSC 231 WI	Music History I	3.0
MUSC 232	Music History II	3.0
PHIL 101	Introduction to Philosophy	3.0
PHIL 105	Critical Reasoning	3.0
PHIL 121	History of Ideas	3.0
PHIL 231	Aesthetics	3.0
THTR 120	Introduction to Theatre	3.0

Social and behavioral sciences: four(4) of the following courses

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210	Worldview: Science, Religion, Magic	3.0

COM 150	Mass Media and Society	3.0
HIST 161	Themes in World Civilization I	3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSY 101	General Psychology	3.0
PSY 120	Developmental Psychology	3.0
PSY 140	Approaches to Personality	3.0
SOC 101	Introduction to Sociology	3.0
SOC 115	Social Problems	3.0
SOC 120	Sociology of the Family	3.0

International studies: two (2) of the following courses

HIST 209	The US and Central America	3.0
HIST 259	History of Europe in the 19th Century	3.0
HIST 270	Introduction to Latin American History	3.0
MUSC 331	World Musics	3.0
PSCI 150	International Politics	4.0

Studies in diversity: two (2) of the following courses

AFAM 101	Intellectual/Cultural Foundations of the African-American Experience	3.0
AFAM 201	African-American Aesthetics	
SOC 210	Race and Ethnic Relations	3.0
HIST 212	Themes in African-American History	3.0
HIST 214	The Civil Rights Movement in the US	3.0
WMS 101	Introduction to Women's Studies	3.0
WMS 240	Women and Society in a Global Context	3.0
	Any Judaic Studies course	3.0

Major requirements **80.0 - 81.0 Credits**

Foundational and professional courses **50.0 Credits**

All of the following

ENGL 205 WI	American Literature I	3.0
ENGL 206 WI	American Literature II	3.0
ENGL 211	British Literature I	3.0
ENGL 212 WI	British Literature II	3.0
ENGL 315 WI	Shakespeare	3.0
ENGL 499 WI	Senior Project in English	4.0
PHIL 381 WI	Philosophy in Literature	3.0

Two (2) of the following

ENGL 200 WI	Classical to Medieval Literature	3.0
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ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 203	Post-Colonial Literature I: Africa/Asia/Caribbean/ Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/ Japan/Middle East	3.0
ENGL 207 WI	African American Literature	3.0

Three (3) of the following

ENGL 214	Readings in Fiction	3.0
ENGL 215 WI	Readings in Poetry	3.0
ENGL 216 WI	Readings in Drama	3.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 304	Topics in Writing	3.0

Three (3) of the following

ENGL 310 WI	Period Studies	3.0
ENGL 320 WI	Major Authors	3.0
ENGL 325	Topics in World Literature	3.0
ENGL 335	Mythology	3.0
ENGL 355 WI	Women and Literature	3.0
ENGL 365 WI	Topics in African American Literature	3.0

One (1) of the following

ENGL 490 (WI)	Seminar in English/American Literature	4.0
ENGL 492 (WI)	Seminar in World Literature	4.0

Literature Electives 6.0 Credits

Two (2) of the following

ENGL 305 WI	The Mystery Story	3.0
ENGL 307	Literature of the Holocausts	3.0
ENGL 323	Literature and the Other Arts	3.0
ENGL 330	The Bible as Literature	3.0
ENGL 345	American Ethnic Literature	3.0
ENGL 350	Jewish Literature and Civilization	3.0
ENGL 360 WI	Literature and Society	3.0
ENGL 395 WI	Special Studies in Literature	3.0

**Applied Writing and Communication 12.0 - 13.0
Credits**

Four (4) of the following

COM 260 WI	Fundamentals of Journalism	3.0
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COM 300 WI	Computer-Assisted Journalism	3.0
COM 310 WI	Technical Communication	3.0
COM 340	Desktop Publishing	3.0
FMVD 270	Scriptwriting I	3.0
FMVD 275	Scriptwriting II	3.0
INFO 101	Introduction to Information Technology	3.0
INFO 102	Introduction to Information Systems	3.0
WRIT 210 WI	Writing/Peer Tutoring Workshop	3.0
WRIT 220 WI	Creative Nonfiction Writing	3.0
WRIT 310 WI	Literary Editing and Publication	3.0
WRIT 312 WI	The Practice of Professional Writing	3.0
WRIT 400 WI	Writing in Cyberspace	4.0

Science and Technology in the Humanities **12.0 Credits**

Four (4) of the following

ENGL 300 WI	Literature and Science	3.0
ENGL 303	Science Fiction	3.0
HIST 280	History of Science I	3.0
HIST 281	History of Science II	3.0
HIST 285	Technology in Historical Perspective	3.0
HIST 294	Technology in American Life	3.0
PHIL 311	Computer Ethics	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0

Free electives **27.0 - 33.0 Credits**

*Substitutions of college requirements permissible only if approved by the Program Director.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BA English

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes in World Civilization I	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (second-year level)	4.0
	Mathematics elective	4.0
<i>Term credits</i>		<i>15.0</i>
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes in World Civilization II	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (second-year level)	4.0
	Mathematics elective	4.0
<i>Term credits</i>		<i>15.0</i>
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 103	Analytical Writing and Reading	3.0
MUSC 130	Introduction to Music	3.0
PHIL 101	Introduction to Philosophy	3.0
PSY 101	General Psychology I	3.0
<i>Term credits</i>		<i>15.0</i>
Term 4		Credits
ENGL 205	American Literature I	3.0
ENGL 211	British Literature I	3.0
PHIL 105	Critical Reasoning	3.0
	Science elective ¹	3.0
PSCI 120	History of Political Thought	4.0
or		
	Social and Behavioral Sciences elective ²	3.0-4.0
<i>Term credits</i>		<i>15.0-16.0</i>
1	Any Biology, Chemistry, Nutrition, Physics or Environmental Science course.	
2	See the English Degree requirements page for a list of the other Social and behavioral sciences options.	
Term 5		Credits
ENGL 206	American Literature II	3.0
ENGL 212	British Literature II	3.0
	Science elective	3.0
HIST 212	Themes in African-American History	3.0
or		
	Diversity Studies elective ¹	3.0
PSCI 150	International Politics	4.0
or		
	International Studies elective ²	3.0
<i>Term credits</i>		<i>15.0</i>
1	See the English Degree requirements page for a list of the other Diversity studies options.	

2	See the English Degree requirements page for a list of the other International studies options.	
Term 6		Credits
COM 260 WI	Fundamentals of Journalism	3.0
SOC 210	Race and Ethnic Relations	3.0
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 203 WI	Post-Colonial Literature I	3.0
WMST 101	Introduction to Women's Studies	3.0
<i>Term credits</i>		15.0
Term 7		Credits
COM 300 WI	Computer-Assisted Journalism	3.0
ENGL 207	African American Literature	3.0
ENGL 216	Readings in Drama	3.0
PHIL 381 WI	Philosophy in Literature	3.0
HIST 285	Technology in Historical Perspective	3.0
or	Science, Technology, and Human Affairs elective ¹	3.0
<i>Term credits</i>		15.0
1	See the English Degree requirements page for a list of the other History of Science and Technology in the Humanities options.	
Term 8		Credits
COM 340	Desktop Publishing	3.0
ENGL 315 WI	Shakespeare	3.0
WRIT 220 WI	Creative Nonfiction Writing	3.0
Two electives		6.0
<i>Term credits</i>		15.0
Term 9		Credits
WRIT 310	Literary Editing and Publishing	3.0
Two electives		6.0
Two English major foundational courses ¹		6.0
<i>Term credits</i>		15.0
1	Students select two courses from the following: ENGL 310 Period Studies; ENGL 320 Major Authors; ENGL 325 Topics in World Literature; ENGL 335 Mythology; ENGL 355 Women and Literature; or ENGL 365 Topics in African American Literature.	
Term 10		Credits
ENGL 300	Literature and Science	3.0
ENGL 323	Literature and Other Arts	3.0
ENGL 360	Literature and Society	3.0
Two electives		6.0
<i>Term credits</i>		15.0
Term 11		Credits
HIST 281	History of Science II ¹	3.0
PHIL 361	Philosophy of Science	3.0
Two electives		6.0
ENGL 490 WI	Seminar in English/American Literature	4.0
or	ENGL 492 WI Seminar in World Literature	4.0
<i>Term credits</i>		16.0
1	For options instead of HIST 281 and PHL 361, see the English Degree requirements page for a list of the other History of Science and Technology in the Humanities options.	
Term 12		Credits
ENGL 499 WI	Senior Project in English	4.0
WRIT 312	The Practice of Professional Writing	3.0
Three electives		9.0
<i>Term credits</i>		16.0
Total credits (minimum)		182.0



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Environmental Science

Bachelor of Science Degree: 188.5 credits

Environmental science is a multidisciplinary field designed to try to understand environmental problems and find solutions to them. This field requires understanding of a number of disciplines, including biology, chemistry, hydrology, and climatology. Solving some of our environmental problems also requires some knowledge of anthropology and agriculture as well as sociology, ethics, and economics.



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Prospective Students

Apply Online

Environmental Science

Bachelor of Science Degree: 189.5 credits

The program is designed to prepare students for careers in environmental science, environmental assessment, waste management, teaching, atmospheric science, environmental health, marine science, applied ecology, and biodiversity and conservation. Each student is required to complete the environmental core curriculum, listed below.

Required courses		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 221	Microbiology	5.0
or		
ENVR 324	Microbial Ecology	4.5
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
CHEM 103	General Chemistry III	5.0
CHEM 230	Quantitative Analysis	4.0
CHEM 231 WI	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry I Laboratory	3.0
ENVR 272	Physical Geology	4.0
ENVR 260	Environmental Science and Society I	3.0
ENVR 261	Environmental Science and Society I Lab	1.0
ENVR 262 WI	Environmental Science and Society II	3.0
ENVR 263	Environmental Science and Society II Lab	1.0
ENVR 284 WI	Ecology I: Physiological and Population Ecology	5.0
ENVR 286 WI	Ecology II: Communities and Ecosystems	5.0
ENVR 310	Environmental Data Analysis	3.0
ENVR 316	Sanitary Microbiology	3.0
ENVR 342 WI	Bioclimatology	3.0
ENVR 360	Environmental Movements in America	3.0
ENVR 460	Evolution	3.0
BIO 440	Biometry	3.0
MATH 121	Calculus I	4.0

MATH 122	Calculus II*	4.0
MATH 123	Calculus III	4.0
PHEV 141 WI	Atmospheric Science I: Climate and Global Change	3.0
PHEV 142 WI	Atmospheric Science I Laboratory	1.0
PHEV 441	Issues in Global Change I: Seminar	2.0
PHEV 442	Issues in Global Change II: Research	2.0
PHYS 152	Physics for Life Sciences I	4.5
PHYS 153	Physics for Life Sciences II	4.5

Humanities requirements		Credits
COM 310 WI	Technical Communication	3.0
ECON 211	Principles of Economics I (Micro)	3.0
ECON 212	Principles of Economics I (Macro)	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
	Electives	9.0

In addition, each student selects 18 to 32 credits of specified courses in one of the following areas of specialization:

Biodiversity and conservation

CIVE 450	Urban and Regional Planning I	3.0
ENVR 338	Biodiversity and Conservation	3.0
PSCI 100	Introduction to Political Science	4.0
	Animal diversity elective	3.0-5.0
	Plant diversity elective	3.0-5.0
	Environmental policy elective	3.0

Ecology

ENVR 330	Aquatic Ecology	3.0
ENVR 336	Terrestrial Ecology	5.0
ENVR 338	Biodiversity and Conservation	3.0
	Animal diversity elective	3.0-5.0
	Plant diversity elective	3.0-5.0

Environmental education

EDUC 310	Computer Applications in Teaching	3.0
EDUC 320 WI	Professional Studies in Instruction	9.0
EDUC 322	Evaluation of Instruction	4.0
EDUC 323 WI	Diagnostic Teaching	4.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 410	Student Teaching (serves as a co-op)	9.0
ENVR 338	Biodiversity and Conservation	3.0
	Environmental science elective	3.0

Environmental policy

ECON 351	Resource and Environmental Economics	4.0
ENVR 365	Introduction to Environmental Policy Analysis	3.0
ENVR 370	Practice of Resource and Environmental Economics	3.0
PHIL 341	Philosophy of the Environment	3.0
PSCI 100	Introduction to Political Science	3.0
SOC 250	Research Methods I	3.0
SOC 260 WI	Classic Social Theory	3.0
SOC 460 WI	Contemporary Social Theory	3.0

Environmental technology

BIO 201	Human Physiology I	4.0
BIO 404	Structure and Function of Biomolecules	4.0
BIO 306	Biochemistry Laboratory	2.0
BIO 304	Metabolism	4.0
CHEM 256	Physical Chemistry for Biological Sciences	4.5
ENVR 324	Microbial Ecology	4.5

(General) Environmental Science

For the general environmental science specialization, students take 24 credits of upper-level environmental electives. These courses can range across disciplines. Students should contact the Department for information about the courses that qualify.

Marine science

ENVR 330	Aquatic Ecology	3.0
ENVR 690	Marine Ecology	3.0
SEA Semester (off campus)		17.0

This is a special program in cooperation with the Sea Education Association. Students have a unique opportunity to concentrate on deep-water oceanographic studies in Woods Hole, Massachusetts, and on a sailing vessel. Through the rigors of hands-on research and practical seamanship, students will collect and analyze data for an individual research project and obtain advanced knowledge of marine science. The shore component of the SEA semester consists of Maritime Studies, Oceanography, and Nautical Science. The sea component consists of Practical Oceanography I and II.

Additional electives are chosen according to the specialty area in consultation with the student's advisor to give a total of 75.5 credits in environmental science. Other required or elective courses in the humanities, mathematics and other sciences, and general electives make up the total 188.5 credits required for the degree.

Field experience includes quantitative environmental measurements in local aquatic and terrestrial habitats, such as streams, lakes, the Delaware Bay, the Poconos, and the New Jersey Pine Barrens.

Students are required to consult frequently with their academic advisors for curriculum planning. Many of the graduate courses in environmental science are also open to qualified seniors who wish to become familiar with some of the applications in the field. Prerequisites and descriptions of available graduate courses appear in the graduate catalog.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.

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Recommended Plan of Study

BS Environmental Science

Bachelor of Science Degree

[4-yr non-co-op](#)

Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
BIO 121	Physiology of Nutrition	4.5
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		16.5
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
BIO 122	Cells and Genetics	4.5
UNIV 101	The Drexel Experience	1.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
BIO 123	Organismal Diversity and Ecology	4.5
MATH 123	Calculus III	4.0
or		
MATH 239	Intermediate Calculus	4.0
<i>Term credits</i>		16.5
Term 4		Credits
CHEM 241	Organic Chemistry I	4.0
ENVR 260	Environmental Science and Society I	3.0
ENVR 284 WI	Ecology I: Physiological and Population Ecology	5.0
ENVR 261	Environmental Science and Society I Lab	1.0
	Elective	3.0
<i>Term credits</i>		16.0
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
ENVR 286 WI	Ecology II: Communities and Ecosystems	5.0
PHEV 142 WI	Atmospheric Science I Laboratory	1.0
ENVR 263	Environmental Science and Society II Lab	1.0
PHEV 141 WI	Atmospheric Science I: Climate and Global Change	3.0
<i>Term credits</i>		17.0
Term 6		Credits
CHEM 230	Quantitative Analysis	3.0
CHEM 231 WI	Quantitative Analysis Lab	2.0
	Elective	3.0
	Environmental Science elective	3.0
	English/Social Science elective	3.0

	<i>Term credits</i>	14.0
Term 7		Credits
ENVR 272	Physical Geology	4.0
ENVR 360	Environmental Movements in America	3.0
PHYS 152	Physics for Life Science I	4.5
	Environmental Science elective	3.0
	<i>Term credits</i>	14.5
Term 8		Credits
ECON 211	Principles of Economics I (Micro)	3.0
PHYS 153	Physics for Life Science II	4.5
ENVR 460	Evolution	3.0
	Environmental Science elective	3.0
	<i>Term credits</i>	13.5
Term 9		Credits
COM 310 WI	Technical Communication	3.0
ECON 212	Principles of Economics II (Macro)	3.0
	Two electives	6.0
	Environmental Science elective	3.0
	<i>Term credits</i>	15.0
Term 10		Credits
BIO 440	Biometry	3.0
ENVR 316	Sanitary Microbiology	3.0
	Two electives	6.0
	Environmental Science elective	3.0
	<i>Term credits</i>	15.0
Term 11		Credits
BIO 441	Data Analysis in the Biosciences	3.0
COM 380 WI	Special Topics in Communication: Environmental Communication	3.0
ENVR 441	Issues in Global Change I: Seminar	2.0
	Elective	3.0
	Environmental Science elective	3.0
	<i>Term credits</i>	14.0
Term 12		Credits
ENVR 442	Issues in Global Change II: Research	2.0
	Three electives	9.0
	Environmental Science elective	3.0
	<i>Term credits</i>	14.0
Total credits (minimum)		182.5



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History & Politics

The [Department of History & Politics](#) offers a major in history and politics as well as [six minors](#).

In the major program, required courses in history introduce students to historical interpretations in the specific context of selected time periods, geographic areas, and themes. Introductory courses in political science expose students to the particular approaches and subject matter of the five recognized branches of the discipline. Research methods in history and political science, followed by research seminars during the junior and senior years, complete the core curriculum.

Beyond core introductory and seminar requirements, the department believes the most desirable curriculum offers students a wide degree of flexibility and independence. The curriculum plan permits students to design a course of study that reflects individual interest and meets a wide variety of preprofessional needs, such as pre-law or pre-civil service. This course of study is selected after close, continuing consultation with a faculty advisor chosen by the student or by the department head.



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History & Politics

The Department of History & Politics offers both a Bachelor of Science (BS) and a Bachelor of Arts (BA). Students may choose the program that best fits their needs and future goals.

The Bachelor of Science (BS) provides a framework for those students who want to focus more specifically on the history of science & technology and regulatory politics & public policy.

The Bachelor of Arts (BA) provides a more traditional course of study, which includes language requirements and allows for options in the fulfillment of math and science requirements.

[The Bachelor of Science \(BS\) Degree Requirements](#)

[The Bachelor of Arts \(BA\) Degree Requirements](#)



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History & Politics

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
Two math courses		6.0-8.0
Two science courses		6.0-8.0

Foundation requirements		Credits
Two diversity electives		6.0
Two foreign language courses (must complete level 201)		8.0
Four humanities and arts electives		12.0
Four social science electives		12.0
Two international studies electives		6.0

Departmental requirements		Credits
HIST 161	Themes in World Civilization I	3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0
HIST 301	The Study of History	3.0
HIST 332 WI	Junior Seminar in History	3.0
or		
PSCI 470 WI	Junior Seminar in Political Science	
PSCI 120	History of Political Thought	4.0
PSCI 210	American Political System	4.0
PSCI 240	Comparative Government	3.0
PSCI 255	International Political Economy	4.0
PSCI 300	Research Methods in Political Science	4.0
Any History of Latin America, Africa, or Asia		3.0
History & Politics electives		30.0

Two of the following courses		6.0
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HIST 201	US History to 1815	3.0
HIST 202	US History, 1815-1900	3.0
HIST 203	US History since 1900	3.0

History & Politics senior sequence	6.0
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HIST 490 WI Senior Seminar in History I	3.0
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HIST 491 WI Senior Seminar in History II	3.0
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or

PSCI 490 WI Senior Seminar in Political Science I	3.0
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PSCI 491 WI Senior Seminar in Political Science II	3.0
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Other courses	Credits
Free electives	32.0- 36.0



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History & Politics

Bachelor of Arts Degree: 182.0 credits

Recommended Plan of Study

Freshman year

Term 1	Credits
HIST 161 Themes in World Civilization I	3.0
ENGL 101 Expository Writing and Reading	3.0
UNIV 101 The Drexel Experience	1.0
MATH 101 Introduction to Math Analysis I	4.0
PSCI 210 American Political System	4.0
Total credits	15.0

Term 2	Credits
HIST 162 Themes in World Civilization II	3.0
ENGL 102 Readings and Research	3.0
UNIV 101 The Drexel Experience	1.0
MATH 102 Introduction to Math Analysis II	4.0
Foreign language course (Level 103 or higher)	4.0
Science course*	3.0 - 4.0
Total credits	18.0 - 19.0

* Any Biology, Chemistry, Nutrition, Physics or Environmental Science course.

Term 3	Credits
HIST 163 Themes in World Civilization III	3.0
ENGL 103 Analytical Writing and Reading	3.0
PSCI 120 History of Political Thought	4.0
Foreign language course (Level 201 or higher)	4.0
Science course*	3.0 - 4.0
Total credits	17.0 - 18.0

* Any Biology, Chemistry, Nutrition, Physics or Environmental Science course.

Sophomore Year

Term 4	Credits
Diversity elective	3.0
History & Politics elective	3.0
History of Latin America, Africa, or Asia	3.0
Humanities/fine arts elective	3.0

Social/behavioral science elective	3.0
Total credits	15.0

Term 5		Credits
HIST 202	US History, 1815-1900	3.0
PSCI 240	Comparative Government	3.0
	Humanities/fine arts elective	3.0
	Social/behavioral science elective	3.0
	Free elective	3.0
	Total credits	15.0

Pre-junior year

Term 6		Credits
HIST 203	US History since 1900	3.0
PSCI 255	International Political Economy	4.0
	Diversity elective	3.0
	International studies elective	3.0
	Free elective	3.0
	Total credits	16.0

Term 7		Credits
	International studies elective	3.0
	Humanities/ fine arts elective	3.0
	History & Politics elective	3.0
	Social/behavioral science elective	3.0
	Free elective	3.0
	Total credits	15.0

Junior year

Term 8		Credits
PSCI 300	Research Methods in Political Science	4.0
	History & Politics electives	6.0
	Humanities/fine arts elective	3.0
	Free elective	3.0
	Total credits	16.0

Term 9		Credits
HIST 301	The Study of History	3.0
HIST 332 WI	Junior Seminar in History	3.0
or		
PSCI 470 WI	Junior Seminar in Political Science	
	Social/behavioral science elective	3.0
	History & Politics elective	3.0

Free elective	3.0
Total credits	15.0

Senior year

Term 10	Credits
HIST 490 WI Senior Seminar in History I	3.0
or	
PSCI 490 WI Senior Seminar in Political Science I	
History & Politics electives	6.0
Free electives	6.0
Total credits	15.0

Term 11	Credits
HIST 491 WI Senior Seminar in History II	3.0
or	
PSCI 491 WI Senior Seminar in Political Science II	
History & Politics electives	6.0
Free electives	6.0
Total credits	15.0

Term 12	Credits
History & Politics electives	6.0
Free electives	6.0
Total credits	12.0

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History & Politics

Bachelor of Science Degree: 182.0 credits

Degree Requirements

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
Any 8-credit science sequence		8.0
Any 8-credit math sequence		8.0

Math sequence		8.0
MATH 101	Introduction to Math Analysis I	4.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0

Science sequence		8.0
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
or		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

Foundation requirements		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
ANTH 110	The Human Past	3.0
COM 150	Mass Media and Society	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0

ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
MUSC 130	Introduction to Music	3.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
PHIL 101	Introduction to Philosophy	3.0
or		
PHIL 105	Critical Reasoning	3.0
Any 4-credit statistics course		4.0

Departmental requirements		Credits
HIST 161	Themes in World Civilization I	3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0
HIST 301	The Study of History	3.0
HIST 332 WI	Junior Seminar in History	3.0
or		
PSCI 470 WI	Junior Seminar in Political Science	
PSCI 120	History of Political Thought	4.0
PSCI 210	American Political System	4.0
PSCI 240	Comparative Government	3.0
PSCI 255	International Political Economy	4.0
PSCI 300	Research Methods in Political Science	4.0
Any History of Latin America, Africa, or Asia		3.0
History & Politics electives		30.0

Two of the following courses		6.0
HIST 201	US History to 1815	3.0
HIST 202	US History, 1815-1900	3.0
HIST 203	US History since 1900	3.0

History & Politics senior sequence		6.0
HIST 490 WI	Senior Seminar in History I	3.0
HIST 491 WI	Senior Seminar in History II	3.0
or		
PSCI 490 WI	Senior Seminar in Political Science I	3.0
PSCI 491 WI	Senior Seminar in Political Science II	3.0

Other courses		Credits
Free electives		40.0



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Recommended Plan of Study

BS History & Politics

Bachelor of Science Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes in World Civilization I	3.0
MUSC 130	Introduction to Music	3.0
PSCI 210	The American Political System	4.0
MATH 101	Introduction to Math Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		18.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes in World Civilization II	3.0
SOC 101	Introduction to Sociology	3.0
MATH 102	Introduction to Math Analysis II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		17.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes in World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSY 101	General Psychology I	3.0
Elective		3.0
<i>Term credits</i>		16.0
Term 4		Credits
ENGL 202 WI	Romanticism to Modernism	3.0
History & Politics elective		3.0
History of Latin America, Africa, or Asia		3.0
Statistics elective		4.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
<i>Term credits</i>		17.0
Term 5		Credits
ENGL 204	Post-Colonial Literature II	3.0
HIST 202	US History, 1815-1900	3.0
PSCI 240	Comparative Government	3.0
Elective		3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.0
or		
PHYS 104	General Physics II	4.0
<i>Term credits</i>		16.0
Term 6		Credits
ECON 201	Economics I	4.0

HIST 203	US History Since 1900	3.0
PSCI 255	International Political Economy	4.0
	Elective	3.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
ANTH 110	The Human Past	3.0
	<i>Term credits</i>	17.0
Term 7		Credits
ECON 202	Economics II	4.0
	Two electives	6.0
	History & Politics elective	3.0
PHIL 101	Introduction to Philosophy	3.0
or		
PHIL 105	Critical Reasoning	3.0
	<i>Term credits</i>	16.0
Term 8		Credits
PSCI 300	Research Methods in Political Science	4.0
	Two electives	6.0
	History & Politics electives	6.0
	<i>Term credits</i>	16.0
Term 9		Credits
HIST 301	The Study of History	3.0
	Electives	4.0-6.0
	History & Politics elective	3.0
HIST 332 WI	Junior Seminar in History	3.0
or		
PSCI 470 WI	Junior Seminar in Political Science	3.0
	<i>Term credits</i>	13.0-15.0
Term 10		Credits
	Elective	3.0
	History & Politics electives	6.0
HIST 490 WI	Senior Seminar in History I	3.0
or		
PSCI 490 WI	Senior Seminar in Political Science I	3.0
	<i>Term credits</i>	12.0
Term 11		Credits
	Two electives	6.0
	History & Politics elective	3.0
HIST 491 WI	Senior Seminar in History II	3.0
or		
PSCI 491 WI	Senior Seminar in Political Science II	3.0
	<i>Term credits</i>	12.0
Term 12		Credits
	Two electives	6.0
	History & Politics electives	6.0
	<i>Term credits</i>	12.0
Total credits (minimum)		182.0

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International Area Studies

The [Department of International Area Studies](#) offers a B.A. in international area studies and minors in international area studies and in seven languages: Chinese, French, German, Italian, Japanese, Russian, and Spanish.

Courses in an eighth language—Arabic—are currently offered at the introductory level, and the Modern Language program plans to develop advanced-level Arabic courses in the near future.

International area studies is a language-based interdisciplinary major designed to prepare students for careers in the international arena. It combines a comprehensive liberal arts background with a specialization in the politics, history, culture, and values of a major world area, as determined by the language or languages studied.

The four thematic concentrations—[Justice and Human Rights](#); [Global Science, Technology, and Society](#); [International Business and Economics](#); and [Literature, Culture and Arts](#)—provide dynamic frameworks for studying about international technology transfers, humanitarian crises, border crossings, and global culture.

Area specializations within each thematic concentration include Middle East/ African studies East/South Asian studies, European studies, and Latin American studies.

Students majoring in the program study one or more languages as part of their area specialization, and they may qualify for the University's advanced-level Certification of Proficiency in their target language or languages. French, German, Italian and Spanish are the Western languages available; non-Western languages include Arabic, Chinese, Japanese, and Russian. The major enrolls a number of students from abroad as well as students who lived or studied in Europe, Latin America, or Asia during high school.

Drexel Abroad programs give international area studies students the option of fall-term study programs in Brussels, Bonn, Berlin, Madrid, Paris, and London. The programs feature academic internships with national legislatures, the European Parliament, international law firms and nongovernmental service agencies, and multinational corporations. Drexel Abroad programs are also available in China, Japan, Russia, and Costa Rica.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near

the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Department of International Area Studies

The [Department of International Area Studies](#) offers a Bachelor of Arts degree.

The Bachelor of Arts (B.A.)

The B.A. degree provides preparation for entry-level careers in government, public relations, international advertising, and service agencies. The B.A. is also recommended for graduate study in fields such as law, international relations, public policy, political science, sociology, history, and economics.

Students select one concentration:

- [Global Science, Technology and Society requirements](#)
- [International Business and Economics requirements](#)
- [Justice and Human Rights requirements](#)
- [Literature, Culture and the Arts requirements](#)

Note: Students who enrolled in the B.S. degree (prior to 2005) may view the former Bachelor of Science requirements [here](#).



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International Area Studies Global Science, Technology and Society Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
LING 102	Language and Society	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 150	International Politics	3.0
UNIV 101	The Drexel Experience	2.0
MATH 100+	Two mathematics courses	6.0 - 8.0
	Two science courses	6.0
	One ethics course	3.0

IAS Core Curriculum Requirements		12.0 Credits
IAS 359	Culture and Values	3.0
IAS 360	Civilization	3.0
IAS 399	IAS Independent Study: Global Research Methods	3.0
WMST 240	Women and Society in Global Context	3.0

Language Requirements		21.0 - 33.0 Credits
At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.		

Area-specific courses:		6.0 Credits
Students select at least two courses from one of the following areas:		
Europe		
HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0

HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

AFAS 101	Introduction to Africana Studies	3.0
AFAS 201	Cross-Currents in Africana Studies	3.0
AFAS 295	Special Topics in Africana Studies	3.0
PSCI 245	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0

Latin America

HIST 270 WI	Introduction to Latin American History	3.0
HIST 271	History of Mexico	3.0
HIST 272	Ancient and Colonial Mexico	3.0
HIST 273	Modern Mexico	3.0

East/South Asia

ANTH 212	Topics in World Ethnography	3.0
ARTH 301	Asian Art and Culture	3.0
ARTH 302	Art of India	3.0
ARTH 303	Art of China	3.0
ARTH 304	Art of Japan	3.0
ARTH 465	Special Topics in Art History	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
HIST 238	The Vietnam War	3.0

Global Science, Technology and Society Requirements 39.0 Credits

COM 240	New Technologies in Communication	3.0
ENGL 300	Literature and Science	3.0
HIST 221	Labor in the Age of Science	3.0
HIST 280	History of Science I	3.0
HIST 285	Technology in Historical Perspective	3.0
HIST 286	Exploration of Technology and Gender	3.0
PHIL 335	Global Ethical Issues	3.0
PSCI 371	Science, Technology and Public Policy	3.0
SOC 235	Sociology of Health	3.0
SOC 345	Sociology of the Environment	3.0

Global Science, Technology and Society Distribution Requirements 33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

ANTH 210	Worldview: Science, Religion, Magic	3.0
BIO 264	Ethnobotany	3.0
ECON 301	Microeconomics	4.0
ECON 321	Macroeconomics	4.0
ECON 351	Resource and Environmental Economics	4.0

ENGL 302	Environmental Literature	3.0
HIST 220	History of American Business	3.0
HIST 223	Women and Work in America	3.0
HIST 281	History of Science II	3.0
HIST 292	Technology in American Life	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 446	Perspectives on World Nutrition	3.0
PHIL 321	Biomedical Ethics	3.0
PHIL 341	Philosophy of the Environment	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
SOC 225	Technology and Aging in Industrial Societies	3.0
SOC 260 WI	Classical Social Theory	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
SOC 435	Seminar: Organization of American States	3.0
SOC 380	Special Topics in Sociology: Environmental Justice	3.0
WRIT 400	Writing in Cyberspace	4.0

Electives	11.0-23.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA International Area Studies

Global Science, Technology and Society

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Social Science elective	3.0
	Science elective ¹	3.0-4.0
<i>Term credits</i>		13.0-15.0
1	Suggested courses include: NFS 101 Introduction to Nutrition and Food; PHEV 141 Atmospheric Science I: Climate/Global Change; or BIO 151 Applied Biology.	
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
	Language requirement ¹	3.0-4.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective	3.0-4.0
<i>Term credits</i>		16.0-19.0
1	At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.	
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
	Language requirement	3.0-4.0
<i>Term credits</i>		16.0-17.0
Term 4		Credits
ECON 202	Economics II	4.0
HIST 280	History of Science I	3.0
	Language requirement	3.0-4.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
<i>Term credits</i>		16.0-17.0
Term 5		Credits
COM 240	New Technologies in Communication	3.0
	Language requirement	3.0-4.0
	History & Politics or Culture & Communication elective	3.0
	Area-specific course ¹	3.0
	Global Science, Technology and Society distribution course ²	3.0
<i>Term credits</i>		15.0-16.0
1	See the Degree requirements page for a list of the Area-specific options.	
2	See the Degree requirements page for a list of the Global Science, Technology and Society distribution requirement options.	
Term 6		Credits
HIST 285	Technology in Historical Perspective	3.0
	Language requirement	3.0-4.0

History & Politics or Culture & Communication elective	3.0
Global Science, Technology and Society distribution course	3.0
SOC 235 Sociology of Health	3.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 7	Credits
ENGL 300 Literature and Science	3.0
Language requirement	3.0-4.0
Area-specific course	3.0
Two Global Science, Technology and Society distribution courses	6.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 8	Credits
ENGL 204 Post-Colonial Literature II	3.0
HIST 221 Labor in the Age of Science	3.0
Language requirement	3.0-4.0
SOC 345 Sociology of the Environment	3.0
Global Science, Technology and Society distribution course	3.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 9	Credits
IAS 360 Civilization	3.0
PHIL 335 Global Ethical Issues	3.0
HIST 286 Exploration in Technology and Gender	3.0
Language requirement	3.0-4.0
Global Science, Technology and Society distribution course	3.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 10	Credits
HIST 290 Technology and the World Community	3.0
Language requirement	3.0-4.0
WMST 240 Cross-Cultural Women's Studies	3.0
Two Global Science, Technology and Society distribution courses	6.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 11	Credits
IAS 359 Culture & Values	3.0
Language requirement	3.0-4.0
PSCI 371 Science, Technology, and Public Policy	3.0
Elective	4.0
Global Science, Technology and Society distribution course	3.0
<i>Term credits</i>	<i>16.0-17.0</i>
Term 12	Credits
Language requirement	3.0-4.0
Two electives	6.0
Two Global Science, Technology and Society distribution courses	6.0
<i>Term credits</i>	<i>15.0-16.0</i>
Total credits (minimum)	182.0



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International Area Studies International Business and Economics Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
LING 102	Language and Society	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 150	International Politics	3.0
UNIV 101	The Drexel Experience	2.0
MATH 100+	Two mathematics courses	6.0 - 8.0
	Two science courses	6.0
	One ethics course	3.0

IAS Core Curriculum Requirements		12.0 Credits
IAS 359	Culture and Values	3.0
IAS 360	Civilization	3.0.0
IAS 399	IAS Independent Study: Global Research Methods	3.0
WMST 240	Women and Society in Global Context	3.0

Language Requirements		21.0 - 33.0 Credits
At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.		

Area-specific courses:		6.0 Credits
Students select at least two courses from one of the following areas:		
Europe		
HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0

HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

AFAS 101	Introduction to Africana Studies	3.0
AFAS 201	Cross-Currents in Africana Studies	3.0
AFAS 295	Special Topics in Africana Studies	3.0
PSCI 245	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0

Latin America

HIST 270 WI	Introduction to Latin American History	3.0
HIST 271	History of Mexico	3.0
HIST 272	Ancient and Colonial Mexico	3.0
HIST 273	Modern Mexico	3.0

East/South Asia

ANTH 212	Topics in World Ethnography	3.0
ARTH 301	Asian Art and Culture	3.0
ARTH 302	Art of India	3.0
ARTH 303	Art of China	3.0
ARTH 304	Art of Japan	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
HIST 238	The Vietnam War	3.0

International Business and Economics Requirements 27.0 Credits

BLAW 340	International Business Law	4.0
ECON 342	Economic Development	4.0
ECON 344	Comparative Economic Systems	4.0
ENGL 360	Literature and Society	3.0
INTB 332 WI	Multinational Corporations	3.0
PHIL 301	Business Ethics	3.0
SOC 260	Classical Social Theory	3.0
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	

International Business and Economics Distribution Requirements 33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

ANTH 312	Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
COM 360	International Communication	3.0
COM 361	International Public Relations	3.0
ECON 301	Microeconomics	4.0
ECON 321	Macroeconomics	4.0

ECON 326	Economic Ideas	4.0
ECON 346	Economics of Consumption	3.0
ENGL 325	Topics in World Literature	3.0
HIST 290	Technology and World Community	3.0
INTB 336	International Money and Finance	3.0
INTB 338 WI	Regional Studies in International Business and Economic Policy	3.0
PHIL 331	Philosophy and Public Policy	3.0
PSCI 255	International Political Economy	4.0
PSCI 340	Politics of Developing Nations	3.0
PSCI 357	European Union	3.0
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
PSCI 472	Special Studies in Political Science: International Organizations	3.0
MKTG 301 WI	Introduction to Marketing Management	5.0
MKTG 322	Advertising and Advertising Management	4.0
MKTG 351	Marketing for Non-Profit Organizations	4.0
MKTG 357 WI	International Marketing	4.0
SOC 220	Wealth and Power	3.0
SOC 310	Political Sociology	3.0
SOC 340	Globalization	3.0
SOC 435	Seminar: Organization of American States	3.0

Electives	10.0-22.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA International Area Studies

International Business and Economics

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective ¹	3.0-4.0
<i>Term credits</i>		<i>14.0-16.0</i>
1	Suggested courses include: NFS 101 Introduction to Nutrition and Food; PHEV 141 Atmospheric Science I: Climate/Global Change; or BIO 151 Applied Biology.	
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
	Language requirement ¹	3.0-4.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective	3.0-4.0
<i>Term credits</i>		<i>16.0-19.0</i>
1	At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.	
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
	Language requirement	3.0-4.0
<i>Term credits</i>		<i>16.0-17.0</i>
Term 4		Credits
ECON 202	Economics II	4.0
HIST 280	History of Science I	3.0
	Language requirement	3.0-4.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
<i>Term credits</i>		<i>16.0-17.0</i>
Term 5		Credits
	Language requirement	3.0-4.0
	History & Politics or Culture & Communication elective	3.0
	Area-specific course ¹	3.0
	International Business and Economics distribution course ²	3.0
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	3.0
<i>Term credits</i>		<i>15.0-16.0</i>
1	See the Degree requirements page for a list of the Area-specific options.	
2	See the Degree requirements page for a list of the International Business and Economics distribution requirement options.	
Term 6		Credits

ENGL 360 Literature and Society	3.0
Language requirement	3.0-4.0
History & Politics or Culture & Communication elective	3.0
Area-specific course	3.0
International Business and Economics distribution course	3.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 7	Credits
ECON 342 Economic Development	4.0
PHIL 301 Business Ethics	3.0
Language requirement	3.0-4.0
Two International Business and Economics distribution courses	6.0
<i>Term credits</i>	<i>16.0-17.0</i>
Term 8	Credits
ECON 344 Comparative Economic Systems	4.0
ENGL 204 Post-Colonial Literature II	3.0
INTB 334 International Trade	3.0
Language requirement	3.0-4.0
International Business and Economics distribution course	3.0
<i>Term credits</i>	<i>16.0-17.0</i>
Term 9	Credits
BLAW 340 International Business Law	4.0
IAS 360 Civilization	3.0
Language requirement	3.0-4.0
International Business and Economics distribution course	3.0
<i>Term credits</i>	<i>13.0-14.0</i>
Term 10	Credits
INTB 332 Multinational Corporations	3.0
Language requirement	3.0-4.0
WMST 240 Cross-Cultural Women's Studies	3.0
Two International Business and Economics distribution courses	6.0
<i>Term credits</i>	<i>15.0-16.0</i>
Term 11	Credits
IAS 359 Culture & Values	3.0
Language requirement	3.0-4.0
PSCI 371 Science, Technology, and Public Policy	3.0
Elective	3.0-4.0
International Business and Economics distribution course	3.0
<i>Term credits</i>	<i>15.0-17.0</i>
Term 12	Credits
Language requirement	3.0-4.0
Two electives	6.0
Two International Business and Economics distribution courses	6.0
<i>Term credits</i>	<i>15.0-16.0</i>
Total credits (minimum)	182.0



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International Area Studies Justice and Human Rights Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
LING 102	Language and Society	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 150	International Politics	3.0
UNIV 101	The Drexel Experience	2.0
MATH 100+	Two mathematics courses	6.0 - 8.0
	Two science courses	6.0
	One ethics course	3.0

IAS Core Curriculum Requirements		12.0 Credits
IAS 359	Culture and Values	3.0
IAS 360	Civilization	3.0
IAS 399	IAS Independent Study: Global Research Methods	3.0
WMST 240	Women and Society in Global Context	3.0

Language Requirements		21.0 - 33.0 Credits
At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.		

Area-specific courses:		6.0 Credits
Students select at least two courses from one of the following areas:		
Europe		
HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0

HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

AFAS 101	Introduction to Africana Studies	3.0
AFAS 201	Cross-Currents in Africana Studies	3.0
AFAS 295	Special Topics in Africana Studies	3.0
PSCI 245	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0

Latin America

HIST 270 WI	Introduction to Latin American History	3.0
HIST 271	History of Mexico	3.0
HIST 272	Ancient and Colonial Mexico	3.0
HIST 273	Modern Mexico	3.0

East/South Asia

ANTH 212	Topics in World Ethnography	3.0
ARTH 301	Asian Art and Culture	3.0
ARTH 302	Art of India	3.0
ARTH 303	Art of China	3.0
ARTH 304	Art of Japan	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
HIST 238	The Vietnam War	3.0

Justice and Human Rights Requirements 31.0 Credits

ANTH 410	Cultural Theory	3.0
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	
ENGL 360	Literature and Society*	3.0
PHIL 241	Social and Political Philosophy	3.0
PHIL 335	Global Ethical Issues	3.0
PSCI 120	History of Political Thought	4.0
PSCI 329	Theories of Justice	3.0
PSCI 472	Special Topics in Political Science: Ethics and International Affairs	3.0
PSCI 472	Special Topics in Political Science: Human Rights	3.0
SOC 260	Classical Social Theory	3.0

*Justice and Human rights related topics.

Justice and Human Rights Distribution Requirements 33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

AFAS 295	Special Topics in Africana Studies*	3.0
ANTH 312	Intercultural Behavior	3.0

or

COM 345	Intercultural Communication	3.0
COM 360	International Communication	3.0
COM 380	Special Topics in Communication Theory: International Negotiation	3.0
ECON 321	Macroeconomics	4.0
ECON 326	Economic Ideas	4.0
ECON 342	Economic Development	4.0
ENGL 360	Literature and Society*	3.0
HIST 290	Technology and World Community	3.0
IAS 399	IAS Independent Study: Nonviolent Conflict Resolution	3.0
PHIL 331	Philosophy and Public Policy	3.0
PHIL 341	Philosophy of the Environment	3.0
PHIL 391	Philosophy of Religion	3.0
PSCI 240	Comparative Government	3.0
PSCI 255	International Political Economy	4.0
PSCI 340	Politics of Developing Nations	3.0
PSCI 357	European Union	3.0
PSCI 365	Politics, Law and Justice	3.0
PSCI 367	International Law	3.0
SOC 220	Wealth and Power	3.0
SOC 310	Political Sociology	3.0
SOC 435	Seminar: Organization of American States	3.0
SOC 380	Special Topics in Sociology: Social Movements	3.0
SOC 380	Special Topics in Sociology: Environmental Justice	3.0
WMST 280	Special Topics in Women's Studies*	3.0

*Justice and Human rights related topics.

Electives	12.0-24.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA International Area Studies

Justice and Human Rights

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective ¹	3.0-4.0
<i>Term credits</i>		<i>14.0-16.0</i>
1	Suggested courses include: NFS 101 Introduction to Nutrition and Food; PHEV 141 Atmospheric Science I: Climate/Global Change; or BIO 151 Applied Biology.	
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
	Language requirement ¹	3.0-4.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective	3.0-4.0
<i>Term credits</i>		<i>16.0-19.0</i>
1	At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.	
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
	Language requirement	3.0-4.0
<i>Term credits</i>		<i>16.0-17.0</i>
Term 4		Credits
ECON 202	Economics II	4.0
	Language requirement	3.0-4.0
SOC 260 WI	Classical Social Theory	3.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
<i>Term credits</i>		<i>16.0-17.0</i>
Term 5		Credits
PHIL 241	Social and Political Philosophy	3.0
	Language requirement	3.0-4.0
	Justice and Human Rights distribution course ¹	3.0
	History & Politics or Culture & Communication elective	3.0
	Area-specific course ²	3.0
<i>Term credits</i>		<i>15.0-16.0</i>
1	See the Degree requirements page for a list of the Justice and Human Rights distribution requirement options.	
2	See the Degree requirements page for a list of the Area-specific options.	
Term 6		Credits
ENGL 360	Literature and Society	3.0
	Language requirement	3.0-4.0
PSCI 472	Special Studies in Political Science: Human Rights	3.0

	Justice and Human Rights distribution course	3.0
	History & Politics or Culture & Communication elective	3.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 7		Credits
	Language requirement	3.0-4.0
PSCI 329	Theories of Justice	3.0
	Area-specific course	3.0
	Two Justice and Human Rights distribution courses	6.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 8		Credits
ENGL 204	Post-Colonial Literature II	3.0
PSCI 120	History of Political Thought	4.0
	Language requirement	3.0-4.0
	Justice and Human Rights distribution course	3.0
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	3.0
	<i>Term credits</i>	<i>16.0-17.0</i>
Term 9		Credits
ANTH 410	Cultural Theory	3.0
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
	Language requirement	3.0-4.0
	Justice and Human Rights distribution course	3.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 10		Credits
	Language requirement	3.0-4.0
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
WMST 240	Cross-Cultural Women's Studies	3.0
	Two Justice and Human Rights distribution courses	6.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 11		Credits
IAS 359	Culture & Values	3.0
	Language requirement	3.0-4.0
	Elective	3.0-4.0
	Justice and Human Rights distribution course	3.0
	<i>Term credits</i>	<i>12.0-14.0</i>
Term 12		Credits
	Language requirement	3.0-4.0
	Two electives	8.0
	Two Justice and Human Rights distribution courses	6.0
	<i>Term credits</i>	<i>17.0-18.0</i>
Total credits (minimum)		182.0



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International Area Studies Literature, Culture and the Arts Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
LING 102	Language and Society	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 150	International Politics	3.0
UNIV 101	The Drexel Experience	2.0
MATH 100+	Two mathematics courses	6.0 - 8.0
	Two science courses	6.0
	One ethics course	3.0

IAS Core Curriculum Requirements		12.0 Credits
IAS 359	Culture and Values	3.0
IAS 360	Civilization	3.0
IAS 399	IAS Independent Study: Global Research Methods	3.0
WMST 240	Women and Society in Global Context	3.0

Language Requirements		21.0 - 33.0 Credits
At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.		

Area-specific courses:		6.0 Credits
Students select at least two courses from one of the following areas:		
Europe		
HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0

HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0
<hr/>		
<i>Middle East/Africa</i>		
AFAS 101	Introduction to Africana Studies	3.0
AFAS 201	Cross-Currents in Africana Studies	3.0
AFAS 295	Special Topics in Africana Studies	3.0
PSCI 245	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0
<hr/>		
<i>Latin America</i>		
HIST 270 WI	Introduction to Latin American History	3.0
HIST 271	History of Mexico	3.0
HIST 272	Ancient and Colonial Mexico	3.0
HIST 273	Modern Mexico	3.0
<hr/>		
<i>East/South Asia</i>		
ANTH 212	Topics in World Ethnography	3.0
ARTH 301	Asian Art and Culture	3.0
ARTH 302	Art of India	3.0
ARTH 303	Art of China	3.0
ARTH 304	Art of Japan	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
HIST 238	The Vietnam War	3.0

Literature Culture and the Arts Requirements		30.0 Credits
ANTH 212	Topics in World Ethnography	3.0
ANTH 312	Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
ANTH 410	Cultural Theory	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
or		
ARTH 102	History of Art II: Renaissance to Modern	
or		
ARTH 103	History of Art III: Early Modern to Postmodernism	
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/ Middle East	3.0
ENGL 360	Literature and Society*	3.0
MUSC 331	World Musics	3.0
PHIL 231	Aesthetics	
Language course (level 331, 371, 431, or 471)		3.0
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*As appropriate to the major.		

Literature Culture and the Arts Distribution Requirements	33.0 Credits
Students select 33.0 credits from at least 4 different disciplines:	

ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 220	Age in Cross-Cultural Perspective	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
	or	
ARTH 102	History of Art II: Renaissance to Modern	
	or	
ARTH 103	History of Art III: Early Modern to Postmodernism	
ARTH 301	Asian Art and Culture	3.0
COM 210	Theory of Communication	3.0
COM 342	English Worldwide	3.0
COM 355	Ethnography of Communication	3.0
COM 360	International Communication	3.0
COM 390 WI	Global Journalism	3.0
ENGL 200 WI	Classical to Medieval Literature	3.0
ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 203	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/ Middle East	3.0
ENGL 300	Literature and Science	3.0
ENGL 335	Mythology	3.0
ENGL 355	Women in Literature	3.0
ENGL 323	Literature and Other Arts*	3.0
ENGL 325	Topics in World Literature	3.0
MUSC 130	Introduction to Music	3.0
PHIL 201	History of Western Philosophy I	3.0
PHIL 211	Metaphysics	3.0
PHIL 241	Social and Political Philosophy	3.0
PHIL 391	Philosophy of Religion	3.0
PSCI 120	History of Political Thought	4.0
PSCI 323	Comparative Political Thought	3.0
	Language course level (331, 371, 431, or 471)	3.0

*As appropriate to the major..

Electives	11.0-23.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses

with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.



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Recommended Plan of Study

BA International Area Studies

Literature, Culture and the Arts

Bachelor of Arts Degree

[4-yr co-op](#) [4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective ¹	3.0-4.0
<i>Term credits</i>		13.0-15.0
1	Suggested courses include: NFS 101 Introduction to Nutrition and Food; PHEV 141 Atmospheric Science I: Climate/Global Change; or BIO 151 Applied Biology.	
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
	Language requirement ¹	3.0-4.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Mathematics elective	3.0-4.0
	Science elective	3.0-4.0
<i>Term credits</i>		16.0-19.0
1	At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.	
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
PHIL 105	Critical Reasoning	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
	Language requirement	3.0-4.0
<i>Term credits</i>		16.0-17.0
Term 4		Credits
ANTH 212	Topics in World Ethnography	3.0
ECON 202	Economics II	4.0
	Language requirement	3.0-4.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
<i>Term credits</i>		16.0-17.0
Term 5		Credits
MUSC 331	World Music	3.0
	Language requirement	3.0-4.0
	History & Politics or Culture & Communication elective	3.0
	Area-specific course ¹	3.0
	Literature, Culture and Arts distribution course ²	3.0
<i>Term credits</i>		15.0-16.0
1	See the Degree requirements page for a list of the Area-specific options.	
2	See the Degree requirements page for a list of the Literature, Culture and the Arts distribution requirement options.	
Term 6		Credits
ENGL 360	Literature and Society	3.0
PHIL 231	Aesthetics	3.0

	Language requirement	3.0-4.0
	History & Politics or Culture & Communication elective	3.0
	Literature, Culture and Arts distribution course	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
or		
ARTH 102	History of Art II: Renaissance to Modern	3.0
or		
ARTH 103	History of Art III: Early Modern to Postmodernism	3.0
	<i>Term credits</i>	<i>18.0-19.0</i>
Term 7		Credits
	Language requirement	3.0-4.0
	Two Literature, Culture and Arts distribution courses	6.0
	Area-specific course	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 8		Credits
ANTH 410	Cultural Theory	3.0
ENGL 204	Post-Colonial Literature II	3.0
ENGL 360	Literature and Society	3.0
	Language requirement	3.0-4.0
	Literature, Culture and Arts distribution course	3.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 9		Credits
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
ENGL 202 WI	Romanticism to Modernism	3.0
	Language requirement	3.0-4.0
	Literature, Culture and Arts distribution course	3.0
	<i>Term credits</i>	<i>15.0-16.0</i>
Term 10		Credits
	Language requirement	3.0-4.0
	Two Literature, Culture and Arts distribution courses	6.0
WMST 240	Cross-Cultural Women's Studies	3.0
	Elective	3.0-4.0
	<i>Term credits</i>	<i>15.0-17.0</i>
Term 11		Credits
IAS 359	Culture & Values	3.0
	Language requirement	3.0-4.0
	Elective	3.0-4.0
	Literature, Culture and Arts distribution course	3.0
	<i>Term credits</i>	<i>12.0-14.0</i>
Term 12		Credits
	Language requirement	3.0-4.0
	Two Literature, Culture and Arts distribution courses	6.0
	Two electives	7.0
	<i>Term credits</i>	<i>16.0-17.0</i>
Total credits (minimum)		182.0



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Mathematics

Mathematics is a discipline devoted to developing methods for analyzing and solving problems in science, engineering, computer science, and finance, among others. The mathematics major at Drexel, which emphasizes the theory and techniques of applied mathematics, can lead to a wealth of professional and educational opportunities beyond graduation. Applied mathematics focuses on applications of mathematical modeling to solve real-world problems.

Mathematics majors may choose a four-year internship program or a five-year cooperative education program. The program is flexible, and students are encouraged to study in related fields that complement their work in mathematics, such as actuarial science, decision sciences, statistics, economics, finance, or computer science. This enhances the student's career prospects and chances for academic success if graduate school is contemplated. In addition, students may obtain teacher certification while completing a full mathematics major.

Students interested in a dual major, a minor, or the four-year internship program should consult with their advisor or contact the [Department of Mathematics](#).

About the curriculum

The major is built around a core curriculum and the choice of an area of specialization. The major is extremely flexible and students are able to tailor their studies toward particular career interests. Various computer technologies are available to solve mathematical problems.

After completing a core program in basic mathematics, the natural sciences, the humanities, and the social sciences, students elect upper-level courses to specialize in one of the six areas described below:

Actuarial science

Actuaries determine the cost of assumed risks for future financial transactions and provide an evaluation of the results for their companies to use in making strategic management decisions. Professional opportunities exist in insurance, government agencies, banking, and other areas. This concentration provides excellent preparation for the first series of actuarial tests.

Economics and finance

This option prepares students to enter the business world with a strong quantitative background and a knowledge of economics and finance. Students prepare for career opportunities in banking, finance, and related fields or continue their education to obtain the MBA degree.

Probability and statistics

These fields involve mathematical techniques for the analysis and

interpretation of mathematical models where there is uncertainty. Government agencies, medical and pharmaceutical firms, insurance companies, and many other organizations require extensive use of statistical data and models for making policy and economic decisions.

Computational mathematics

The explosive growth of the computer industry has made the theory of computation one of the most rapidly developing areas of mathematics. Coursework emphasizes computational techniques, discrete mathematics, computer algebra systems, and optimization theory.

Industrial and applied mathematics

This track emphasizes applications of mathematical techniques and modeling to real-world problems in the sciences, engineering, and mechanics. Coursework includes both theoretical and numerical methods with an emphasis on problem solving.

Operations research

This field focuses on developing efficient methods and increasing productivity for operations of all sorts, from transportation scheduling to inventory management, from natural resource management to optimal resource allocation, from traffic control to control of power systems.

Graduate studies preparation

Graduate study in applied mathematics requires a rigorous background in theoretical and applied methods. This track emphasizes the core areas of mathematics essential for graduate study in one of the areas described above.



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Mathematics

Bachelor of Science Degree: 182.5 credits

Degree Requirements

General education requirements	Credits
COM 310 WI Technical Writing	3.0
ECON 211 Principles of Economics I (Micro)	3.0
ECON 212 Principles of Economics II (Macro)	3.0
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
History elective	3.0
Humanities electives	9.0
Social sciences elective	3.0
Economics/history/social sciences electives	6.0
Free electives	30.0

Science requirements

BIO 102 Biology I: Cells and Tissues	4.0
CHEM 101 General Chemistry I	4.0
PHYS 111 Physics I	4.5

Mathematics requirements

MATH 121 Calculus I	4.0
MATH 122 Calculus II	4.0
MATH 123 Calculus III	4.0
MATH 200 Calculus IV	4.0
MATH 201 Linear Algebra	4.0
MATH 210 Differential Equations	4.0
MATH 220 Techniques of Proof	3.0

MATH 221 Discrete Mathematics	3.0
MATH 300 Numerical Analysis	4.0
MATH 311 Probability and Statistics I	4.0
MATH 312 Probability and Statistics II	4.0
MATH 331 Abstract Algebra I	4.0
MATH 401 Elements of Modern Analysis I	3.0
MATH 402 Elements of Modern Analysis II	3.0
or	
MATH 332 Abstract Algebra II	
Two focus sequences*	12.0

***Focus sequences:**

MATH 321 Vector Analysis **and** MATH 322 Complex Variables
MATH 310 Numeric.Solut Differential Equations **and** MATH 323 Partial Differential Equations
MATH 305 Introduction to Optimization Theory **and** MATH 450 Introduction to Graph Theory
MATH 480 Bio-informatics I **and** MATH 480 Bio-informatics II
MATH 319 Techniques of Data Analysis **and** MATH 480 Statistical Programming
MATH 480 Math of Finance I **and** MATH 480 Math of Finance II
MATH 480 Non-Parametric Statistics **and** MATH 480 Linear Regression

Two of the following mathematics programming courses:

MATH 316 Math Applications of Symbolic Software	3.0
MATH 318 Math Applications of Statistical Software	3.0
MATH 480 Special Topics: MATLAB Workshop	3.0

Mathematics and applied fields

Additional math electives or applied fields electives (see department for list)	20.0
--	-------------

Computer science requirements (see department for optional courses)

CS 131 Computer Programming A	3.0
CS 132 Computer Programming B	3.0
CS 133 Computer Programming C	3.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses

with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.

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Recommended Plan of Study

BS Mathematics

Bachelor of Science Degree

[4-yr co-op](#)

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 220	Techniques of Proof	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 2		Credits
CHEM 101	General Chemistry I	4.0
CS 131	Computer Programming A	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 3		Credits
CS 132	Computer Programming B	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
<i>Term credits</i>		14.5
Term 4		Credits
COM 310 WI	Technical Communication	3.0
CS 133	Computer Programming C	3.0
ECON 211	Principles of Economics I (Micro)	3.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
<i>Term credits</i>		17.0
Term 5		Credits
ECON 212	Principles of Economics II (Macro)	3.0
MATH 210	Differential Equations	4.0
MATH 221	Discrete Mathematics	3.0
	Elective	3.0
	Arts and Humanities elective	3.0
<i>Term credits</i>		16.0
Term 6		Credits
MATH 300	Numerical Analysis	4.0
MATH 311	Probability and Statistics I	4.0
	Elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields elective	4.0
<i>Term credits</i>		18.0
Term 7		Credits
MATH 312	Probability and Statistics II	4.0
	History elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields electives	6.0
<i>Term credits</i>		16.0

Term 8		Credits
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	Math and applied fields elective	3.0
MATH 331	Abstract Algebra I	4.0
or		
MATH 401	Elements of Modern Analysis I	3.0
MATH 316	Math Applications and Symbolic Software	3.0
or		
MATH 318 WI	Math Applications of Statistical Software	3.0
or		
MATH 480	Special Topics: MATLAB Workshop	3.0
	<i>Term credits</i>	15.0-16.0
Term 9		Credits
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	Math and applied fields elective	3.0
	Social Science elective	3.0
MATH 316	Math Applications and Symbolic Software	3.0
or		
MATH 318 WI	Math Applications of Statistical Software	3.0
or		
MATH 480	Special Topics: MATLAB Workshop	3.0
	<i>Term credits</i>	15.0-16.0
Term 10		Credits
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	History/Economics/Social Sciences elective	3.0
MATH 331	Abstract Algebra I	4.0
or		
MATH 401	Elements of Modern Analysis I	3.0
	<i>Term credits</i>	12.0-13.0
Term 11		Credits
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	History/Economics/Social Sciences elective	3.0
MATH 332	Math Foundations of Cryptography	3.0
or		
MATH 402	Elements of Modern Analysis II	3.0
	<i>Term credits</i>	12.0-13.0
Term 12		Credits
	Two electives	8.0
	Math and applied fields electives	8.0
	<i>Term credits</i>	16.0
Total credits (minimum)		181.5

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Recommended Plan of Study

BS Mathematics

Bachelor of Science Degree

[4-yr non-co-op](#)

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 220	Techniques of Proof	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 2		Credits
CHEM 101	General Chemistry I	4.0
CS 131	Computer Programming A	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 3		Credits
CS 132	Computer Programming B	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
<i>Term credits</i>		14.5
Term 4		Credits
COM 310 WI	Technical Communication	3.0
CS 133	Computer Programming C	3.0
ECON 211	Principles of Economics I (Micro)	3.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
<i>Term credits</i>		17.0
Term 5		Credits
ECON 212	Principles of Economics II (Macro)	3.0
MATH 210	Differential Equations	4.0
MATH 221	Discrete Mathematics	3.0
	Elective	3.0
	Arts and Humanities elective	3.0
<i>Term credits</i>		16.0
Term 6		Credits
MATH 300	Numerical Analysis	4.0
	Elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields electives	6.0
<i>Term credits</i>		16.0
Term 7		Credits
MATH 311	Probability and Statistics I	4.0
	History elective	3.0
	Math focus sequence elective	3.0-4.0
MATH 331	Abstract Algebra I	4.0
or		
MATH 401	Elements of Modern Analysis I	3.0

	<i>Term credits</i>	<i>13.0-14.0</i>
Term 8		Credits
MATH 312	Probability and Statistics II	4.0
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	Math and applied fields elective	3.0
MATH 316	Math Applications and Symbolic Software	3.0
or		
MATH 318 WI	Math Applications of Statistical Software	3.0
or		
MATH 480	Special Topics: MATLAB Workshop	3.0
	<i>Term credits</i>	<i>16.0-17.0</i>
Term 9		Credits
	Elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields electives	8.0
	Social Science elective	3.0
	<i>Term credits</i>	<i>17.0</i>
Term 10		Credits
	Math focus sequence elective	3.0-4.0
	History/Economics/Social Sciences elective	3.0
MATH 331	Abstract Algebra I	4.0
or		
MATH 401	Elements of Modern Analysis I	3.0
MATH 316	Math Applications and Symbolic Software	3.0
or		
MATH 318 WI	Math Applications of Statistical Software	3.0
or		
MATH 480	Special Topics: MATLAB Workshop	3.0
	<i>Term credits</i>	<i>12.0-13.0</i>
Term 11		Credits
	Elective	3.0
	Math focus sequence elective	3.0-4.0
	History/Economics/Social Sciences elective	3.0
MATH 332	Math Foundations of Cryptography	3.0
or		
MATH 402	Elements of Modern Analysis II	3.0
	<i>Term credits</i>	<i>12.0-13.0</i>
Term 12		Credits
	Three electives	9.0
	Math and applied fields electives	8.0
	<i>Term credits</i>	<i>17.0</i>
Total credits (minimum)		180.5



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BS Mathematics

Bachelor of Science Degree

[5-yr co-op](#)

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 220	Techniques of Proof	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 2		Credits
CHEM 101	General Chemistry I	4.0
CS 131	Computer Programming A	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		15.0
Term 3		Credits
CS 132	Computer Programming B	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
<i>Term credits</i>		14.5
Term 4		Credits
COM 310 WI	Technical Communication	3.0
CS 133	Computer Programming C	3.0
ECON 211	Principles of Economics I (Micro)	3.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
<i>Term credits</i>		17.0
Term 5		Credits
ECON 212	Principles of Economics II (Macro)	3.0
MATH 210	Differential Equations	4.0
MATH 221	Discrete Mathematics	3.0
	Elective	3.0
	Arts and Humanities elective	3.0
<i>Term credits</i>		16.0
Term 6		Credits
MATH 300	Numerical Analysis	4.0
MATH 311	Probability and Statistics I	4.0
	Elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields elective	3.0
<i>Term credits</i>		17.0
Term 7		Credits
MATH 312	Probability and Statistics II	4.0
	History elective	3.0
	Arts and Humanities elective	3.0
	Math and applied fields elective	3.0
MATH 316	Math Applications and Symbolic Software	3.0

or			
MATH 318 WI	Math Applications of Statistical Software		3.0
or			
MATH 480	Special Topics: MATLAB Workshop		3.0
	<i>Term credits</i>		16.0
Term 8			Credits
	Elective		3.0
	Math focus sequence elective		3.0-4.0
	Math and applied fields elective		4.0
MATH 316	Math Applications and Symbolic Software		3.0
or			
MATH 318 WI	Math Applications of Statistical Software		3.0
or			
MATH 480	Special Topics: MATLAB Workshop		3.0
MATH 331	Abstract Algebra I		4.0
or			
MATH 401	Elements of Modern Analysis I		3.0
	<i>Term credits</i>		16.0-17.0
Term 9			Credits
	Two electives		6.0
	Math focus sequence elective		3.0-4.0
	Social Science elective		3.0
MATH 332	Math Foundations of Cryptography		3.0
or			
MATH 402	Elements of Modern Analysis II		3.0
	<i>Term credits</i>		15.0-16.0
Term 10			Credits
	Math focus sequence elective		3.0-4.0
	History/Economics/Social Sciences elective		3.0
	Math and applied fields elective		3.0
MATH 331	Abstract Algebra I		4.0
or			
MATH 401	Elements of Modern Analysis I		3.0
	<i>Term credits</i>		12.0-13.0
Term 11			Credits
	Elective		3.0
	Math focus sequence elective		3.0-4.0
	History/Economics/Social Sciences elective		3.0
	Math and applied fields elective		3.0
	<i>Term credits</i>		12.0-13.0
Term 12			Credits
	Two electives		8.0
	Math and applied fields electives		8.0
	<i>Term credits</i>		16.0
Total credits (minimum)			181.5



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Nutrition and Food Science

Nutrition and food science includes the study of foods as nutrient sources and the role of nutrients for humans at the cellular, organ system, and complete human levels. Together with the composition, treatment, and metabolism of foods, this major emphasizes the relationship among nutrition, safety, and function of food components as they are affected by processing, production, and preservation, and by metabolic function. The regulatory, chemical, and microbiological aspects of foods are stressed.

The program in nutrition and food science requires four years of study, with 11 terms of classroom work and two terms of co-op experience. The curriculum is designed to provide a sound basis for careers in dietetics and the application of the principles of nutrition and food science to the nutritional care of individuals and groups—such as in school food service or community nutrition—or in the food and pharmaceutical industries. Students are prepared to work as dietitians in hospitals and nursing care facilities, or enter technical positions in food-product control and development, pharmaceutical and food-ingredient development and function, institutional food-service management, and other nutrition- and food-related service fields.

The study of the biochemical nature of nutrients and foods, their interaction with the environment, and their eventual metabolic fate is a strong career path for more research-minded students and provides a unique base for graduate study. The curriculum has been approved by the Council on Education Division of the Education Accreditation/Approval of the American Dietetic Association as a Didactic Program in Dietetics. With appropriate electives, it provides the premedical course recommended by leading medical schools.

Co-op/internship employment is an option for nutrition and food science students. The major offers two distinct plans:

Four-year option with co-op/internship experience: The degree includes one six-month and one three-month period of full-time employment. After the start of the sophomore year, students study or work through all terms, including summer.

Four-year option without co-op experience: The degree can be completed in four years without co-op/internship employment. Students are not required to pursue studies during any of the summer terms.



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Nutrition and Food Science

Degree Requirements

Bachelor of Science: 180.5 credits

Required Nutrition and Foods courses		Credits
NFS 154	Foods: Composition, Interactions and Formulations	4.0
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 275	Quantity Foods I	3.0
NFS 276	Quantity Foods II	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 350 WI	Experimental Foods: Product Development	3.0
NFS 365 WI	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 371	Institutional Organization and Administration	3.0
NFS 373	Food Service Planning and Equipment Selection	3.0
NFS 391 WI	Community Nutrition	4.0
NFS 415	Advanced Nutrition I: Macronutrients	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 431	Nutrition Counseling	4.0
NFS 443	Therapeutic Nutrition I	3.0
NFS 444 WI	Therapeutic Nutrition II	3.0
NFS 445	Advanced Seminar in the Dietetics Profession	3.0
NFS 480 WI	Senior Project I	2.0
NFS 480 WI	Senior Project II	2.0
NFS 480 WI	Senior Project III	2.0

Biological sciences courses		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 153	Anatomy and Physiology I	4.5
BIO 154	Anatomy and Physiology II	4.5
NFS 270	Microbial Food Safety and Sanitation	4.0
NFS 400	Nutritional Chemistry	3.0
NFS 404 WI	Nutritional Chemistry Laboratory	1.0

Chemistry courses		Credits
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
CHEM 103	General Chemistry III	5.0

Mathematics/statistics/computing courses		Credits
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
STAT 201	Statistics I	4.0

Communications courses		Credits
COM 230	Techniques of Speaking	3.0
COM 310	Technical Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

Humanities and social sciences		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	
ECON 211	Principles of Economics I (Micro)	3.0
ECON 212	Principles of Economics II (Macro)	3.0
PSY 101	General Psychology	3.0
PSY 230	Psychology of Learning	
	or	
PSY 320	Educational Psychology	3.0
PSY 342	Counseling Psychology	3.0
UNIV 101	The Drexel Experience	2.0

Business courses		Credits
ACCT 111	Financial Accounting I	3.0
HRMT 323	Principles of Human Resource Administration	3.0
ORGB 300	Organizational Behavior	4.0

Other courses		Credits
	Free electives	9.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Nutrition and Food Science

Bachelor of Science Degree

[4-yr co-op](#) [4-yr non-co-op](#)

Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
BIO 121	Physiology of Nutrition	4.5
MATH 101	Introduction to Math Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
BIO 122	Cells and Genetics	4.5
MATH 102	Introduction to Math Analysis II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
BIO 123	Organismal Diversity and Ecology	4.5
NFS 154	Foods: Composition, Interactions and Formulations	4.0
<i>Term credits</i>		16.5
Term 4		Credits
BIO 153	Anatomy and Physiology I	4.5
NFS 270	Microbial Food Safety and Sanitation	4.0
PSY 101	General Psychology I	3.0
	Elective	3.0
<i>Term credits</i>		14.5
Term 5		Credits
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
NFS 275	Quantity Foods I	3.0
BIO 154	Anatomy and Physiology II	4.5
PSY 230	Psychology of Learning	3.0
<i>Term credits</i>		14.5
Term 6		Credits
ECON 211	Principles of Economics I (Micro)	3.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 276	Quantity Foods II	3.0
NFS 404 WI	Nutritional Chemistry Laboratory	1.0
PSY 342	Counseling Psychology	3.0
NFS 400	Nutritional Chemistry	3.0
<i>Term credits</i>		16.0
Term 7		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ECON 212	Principles of Economics II (Macro)	3.0
ORGB 300	Organizational Behavior	4.0
ACCT 111	Financial Accounting	3.0
<i>Term credits</i>		13.0

Term 8		Credits
COM 230	Techniques of Speaking	3.0
NFS 350 WI	Experimental Foods: Product Development	3.0
NFS 415	Advanced Nutrition I: Macronutrients	4.0
STAT 201	Statistics I	4.0
<i>Term credits</i>		14.0
Term 9		Credits
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 365 WI	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 371	Institutional Organization and Administration	3.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
<i>Term credits</i>		15.0
Term 10		Credits
NFS 391 WI	Community Nutrition	4.0
NFS 443	Therapeutic Nutrition I	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 494	Senior Project I	2.0
	Elective	3.0
<i>Term credits</i>		15.0
Term 11		Credits
COM 310 WI	Technical Communication	3.0
NFS 431	Nutrition Counseling	4.0
NFS 444 WI	Therapeutic Nutrition II	3.0
NFS 495	Senior Project II	2.0
	Elective	3.0
<i>Term credits</i>		15.0
Term 12		Credits
HRMT 323	Principles of Human Resource Administration	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 373	Food Service Planning and Equipment Selection	3.0
NFS 496	Senior Project III	2.0
	Elective	3.0
<i>Term credits</i>		14.0
Total credits (minimum)		180.5



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Physics

The physics degree provides a sound basis either for entering graduate school or for pursuing a variety of industrial careers. The [Department of Physics](#) exposes students to both traditional and cutting-edge areas of 20th-century physics: astrophysics and general relativity; atomic physics; biological physics; condensed-matter physics, including superconductivity and nanotechnology; laser physics and quantum optics; nonlinear physics and chaos; nuclear physics; nuclear astrophysics; and particle and cosmic ray physics.

Virtually every course in the physics major has an associated computational component designed to extend the students' ability to handle real-world problems solved by state-of-the-art techniques. An important feature of the program is the large number of electives, which allow a student to pursue topics of special interest. There are elective sequences in biology for those preparing to enter biophysics or medicine and advanced topics for those interested in atomic, nuclear, solid-state, theoretical, or atmospheric physics. Students can also choose electives to meet teacher certification requirements.

The Laboratory for High-Performance Computational Physics is now in place, and courses allow students to become proficient in numerical techniques, parallel processing, electronic communication, and the basic computer languages and software relevant to advanced studies and research in physics and atmospheric science.

The [Department of Physics](#) exposes students to both traditional and cutting-edge areas of 20th-century physics: astrophysics and general relativity; atomic physics; biological physics; condensed-matter physics, including superconductivity and nanotechnology; laser physics and quantum optics; nonlinear physics and chaos; nuclear physics; nuclear astrophysics; and particle and cosmic ray physics.



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Physics

Bachelor of Science Degree: 185.0 credits

Degree Requirements

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
	History of science elective	3.0
	Liberal studies electives*	9.0
	Business electives	6.0
	Free electives	6.0

*It is strongly recommended that a student's liberal studies and/or free electives include COM 230 (Techniques of Speaking) and COM 310 WI (Technical Communication).

Mathematics/computer science requirements

CS 170	Computer Programming I	3.0
CS 171	Computer Programming I	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0

Chemistry requirements

CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 103	General Chemistry III	5.0

Physics requirements

PHYS 113	Contemporary Physics I	5.0
PHYS 114	Contemporary Physics II	5.0
PHYS 115	Contemporary Physics III	5.0
PHYS 105	Computational Physics I	3.0
PHYS 223 WI	Modern Physics Laboratory	3.0
PHYS 226 WI	Instrumentation for Scientists I	3.0
PHYS 305	Computational Physics II	3.0
PHYS 311	Classical Mechanics I	4.0
PHYS 312	Classical Mechanics II	4.0
PHYS 217	Thermodynamics	4.0
PHYS 317	Statistical Mechanics	3.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 322	Electromagnetic Fields II	4.0
PHYS 324	Topics in Mathematical Physics	3.0
PHYS 326	Quantum Mechanics I	4.0
PHYS 327	Quantum Mechanics II	4.0
PHYS 328	Advanced Laboratory	3.0
PHYS 428	Quantum Mechanics III	4.0
PHYS 491	Senior Research I	3.0
PHYS 492	Senior Research II	3.0
PHYS 493 WI	Senior Research III	3.0

Physics lab requirements 3.0 - 4.0

PHYS 227 WI	Instrumentation for Scientists II	3.0
or		
PHYS 306	Computational Physics Laboratory I	2.0
and		
PHYS 307	Computational Physics Laboratory II	2.0

Topical course requirements 12.0

Physics majors must complete four (4) Topical courses designated by the Physics department. Advanced Computational Physics (Phys 405) will also satisfy a topical requirement. In Any course which is not explicitly in the department's roster of topical courses must be approved by the department head or director of undergraduate advising.

Topical courses

PHYS 431	Galactic Dynamics	3.0
PHYS 432	Cosmology	3.0
PHYS 452	Solid State Physics	3.0
PHYS 453	Nanoscience	3.0
PHYS 461	Biophysics	3.0
PHYS 462	Computational Biophysics	3.0
PHYS 471	Nonlinear Dynamics	3.0
PHYS 476	Nuclear and Particle Physics	3.0

In addition to these Topical course options, the Department of Physics will count any non-required course at the 400-level or higher (for example, PHYS 405 Advanced Computational Physics or PHYS 451 Quantum Structure of Materials), Special Relativity (taught at the 200-level in the Honors College), or directly appropriate advanced courses in related fields. The appropriateness of the latter is determined by obtaining a signed letter to that effect from the Physics Department's Director of Undergraduate Studies.

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Physics

Bachelor of Science Degree

[4-yr non-co-op](#) [5-yr co-op](#)

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
CS 171	Computer Programming I	3.0
MATH 121	Calculus I	4.0
PHYS 113	Contemporary Physics I	5.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 114	Contemporary Physics II	5.0
PHYS 480	Special Topics in Physics: Computer Programming	3.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 105	Computational Physics I	3.0
PHYS 115	Contemporary Physics III	5.0
	Elective	3.0
<i>Term credits</i>		18.0
Term 4		Credits
CHEM 101	General Chemistry I	4.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
PHYS 217	Thermodynamics	4.0
<i>Term credits</i>		16.0
Term 5		Credits
CHEM 102	General Chemistry II	4.0
MATH 210	Differential Equations	4.0
PHYS 223 WI	Modern Physics Laboratory	3.0
PHYS 305	Computational Physics II	3.0
	Elective	3.0
<i>Term credits</i>		17.0
Term 6		Credits
PHYS 311	Classical Mechanics I	4.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 324	Topics in Mathematical Physics	3.0
	Elective	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 103	General Chemistry III	5.0
<i>Term credits</i>		18.0
Term 7		Credits
PHYS 312	Classical Mechanics II	4.0
PHYS 322	Electromagnetic Fields II	4.0

	PHYS 328 Advanced Laboratory	3.0
	PHYS 306 Computational Physics Laboratory I ¹	2.0
	Elective	3.0
	<i>Term credits</i>	16.0
1	For students selecting the PHYS 306/307 laboratory option. As an alternative, students can select the PHYS 227 option to fulfil this laboratory requirement. In that case, it is recommended students take PHYS 227 in Term 9	
	Term 8	Credits
	PHYS 226 W Instrumentation for Scientists I	3.0
	PHYS 324 Topics in Mathematical Physics	3.0
	PHYS 326 Quantum Mechanics I	4.0
	Elective	3.0
	Topical Physics course ¹	3.0
	<i>Term credits</i>	16.0
1	See the Department's Web site for a list of topical physics courses.	
	Term 9	Credits
	PHYS 317 Statistical Mechanics	3.0
	Topical Physics course	3.0
	PHYS 327 Quantum Mechanics II	4.0
	or	
	PHYS 307 Computational Physics Laboratory II	2.0
	<i>Term credits</i>	8.0
	Term 10	Credits
	PHYS 408 Physics Seminar	1.0
	PHYS 428 Quantum Mechanics III	3.0
	PHYS 491 Senior Research I	3.0
	Elective	3.0
	Two Topical Physics courses	6.0
	<i>Term credits</i>	16.0
	Term 11	Credits
	PHYS 408 Physics Seminar	1.0
	PHYS 492 Senior Research II	3.0
	Two electives	6.0
	Topical Physics course	3.0
	<i>Term credits</i>	13.0
	Term 12	Credits
	PHYS 408 Physics Seminar	1.0
	PHYS 493 Senior Research III	3.0
	Three electives	9.0
	<i>Term credits</i>	13.0
	Total credits (minimum)	183.0



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Psychology

About the Major

Psychology seeks the answers to a broad variety of questions regarding the behavior, thoughts, and emotions of individuals. These questions range from the biochemical basis of memory and the effects of stress on health to understanding the causes of emotional problems or such experiences as falling in love. These questions are studied by using scientific research techniques both in the laboratory and the “real” world. The answers are applied in fields such as business, the health sciences, law, education, counseling, and the design of useful and usable technologies.

One strength of the psychology program at Drexel is its emphasis on psychological statistics and research methodology. Psychology majors are well trained in research data analysis and find employment opportunities in research and corporate settings more readily. One other opportunity available to Drexel psychology undergraduates is the co-operative education/internship programs, through which students mix periods of full-time, career-related employment with their academic studies. This allows students to have “hands on” experience in a variety of clinical settings throughout the Philadelphia metropolitan region, and makes them more competitive for employment after graduation.

For additional information, visit the [Drexel University Department of Psychology](#) homepage.



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Psychology

Bachelor of Science Degree: 182.0 credits

Degree Requirements

College/University requirements		Credits
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
PSCI 100	Introduction to Political Science	4.0
UNIV 101	The Drexel Experience	2.0
	Economics elective	4.0
	Fine arts elective	3.0
	History electives	6.0
	Philosophy elective	3.0
One of the following courses		3.0
ENGL 200 WI	Classical to Medieval Literature	
ENGL 201	Renaissance to the Enlightenment	
ENGL 202 WI	Romanticism to Modernism	
One of the following courses		3.0
ENG 203	Post-Colonial Literature I	
ENG 204	Post-Colonial Literature II	
One of the following course sequences		8.0
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
or		
PHYS 103	General Physics I	4.0

PHYS 104	General Physics II	4.0
Total credits		56.0

Other courses

Total free elective credits	54.0
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Departmental requirements

General Psychology requirements

PSY 111	Preprofessional Psychology I*	3.0
PSY 112	Preprofessional Psychology II*	3.0

* Students with AP psychology or transfer students with PSY 101 credit do not take the PSY 111 and PSY 112 series, but use their approved credit and a 100-level Psychology elective to satisfy the general Psychology requirement.

Sociology/Anthropology requirements

Any Sociology course	3.0
Any Anthropology course	3.0

Other courses

100-level requirements (Two of the following courses)

PSY 120	Developmental Psychology	3.0
PSY 140	Approaches to Personality	3.0
PSY 150	Introduction to Social Psychology	3.0

Required Psychology courses

PSY 212	Physiological Psychology	3.0
PSY 230	Psychology of Learning	3.0
PSY 240 WI	Abnormal Psychology	3.0
PSY 260	Research Methods in Psychology	3.0
PSY 330	Cognitive Psychology	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 360	Experimental Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PSY 365	Computer-Assisted Data Analysis II	3.0
PSY 401	History and Systems	3.0

Advanced Psychology electives (Four of the following courses) **12.0**

PSY 210	Comparative Psychology	3.0
PSY 213	Sensation and Perception	3.0
PSY 225	Child Psychology	3.0
PSY 245 WI	Sports Psychology	3.0
PSY 250 WI	Industrial Psychology	3.0
PSY 252	Death and Dying	3.0
PSY 262	Science and Pseudoscience	3.0

PSY 310	Drugs and Human Behavior	3.0
PSY 322	Advanced Developmental Psychology	3.0
PSY 332	Human Factors and Cognitive Engineering	3.0
PSY 337	The Psychology of Human-Computer Interaction	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 342	Counseling Psychology	3.0
PSY 350	Advanced Social Psychology	3.0
PSY 355	Health Psychology	3.0
PSY 356	Women's Health Psychology	3.0
PSY 410	Neuropsychology	3.0
PSY 440	Advanced Personality Seminar	3.0
PSY 442	Theories and Practice in Clinical Psychology	3.0

Senior seminar sequence*

PSY 490	Psychology Research Seminar I*	4.0
PSY 491	Psychology Research Seminar II*	4.0
PSY 492	Psychology Research Seminar III*	4.0

* Students who do not wish to elect the research seminar sequence are required to take four additional advanced psychology electives instead.

Total departmental credits		72.0
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Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Psychology

Bachelor of Science Degree

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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSY 111	Preprofessional Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
<i>Term credits</i>		15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
PSY 112	Preprofessional Psychology II	3.0
UNIV 101	The Drexel Experience	1.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.0
or		
PHYS 104	General Physics II	4.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
PSY 120	Developmental Psychology	3.0
or		
PSY 140	Approaches to Personality	3.0
or		
PSY 150	Introduction to Social Psychology	3.0
<i>Term credits</i>		18.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
PSY 240	Abnormal Psychology	3.0
	Fine Arts elective	3.0
	Any sociology or anthropology elective	3.0
PSY 120	Developmental Psychology	3.0
or		
PSY 140	Approaches to Personality	3.0
or		
PSY 150	Introduction to Social Psychology	3.0
<i>Term credits</i>		15.0
Term 4		Credits
PSCI 100	Introduction to Political Science	4.0
	Two 200-level Psychology electives	6.0
	Any sociology or anthropology elective	3.0
ENGL 200	Classical to Medieval Literature	3.0
or		

ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202 WI	Romanticism to Modernism	3.0
<i>Term credits</i>		16.0
Term 5		Credits
CS 161	Introduction to Computing	3.0
PSY 260	Research Methods in Psychology	3.0
PSY 330	Cognitive Psychology	3.0
	Philosophy elective	3.0
ENGL 204	Post-Colonial Literature II	3.0
or		
ENGL 203 WI	Post-Colonial Literature I	3.0
PSY 212	Physiological Psychology	3.0
or		
PSY 230	Psychology of Learning	3.0
<i>Term credits</i>		18.0
Term 6		Credits
PSY 340	Psychological Testing and Assessment	3.0
PSY 360	Experimental Psychology	3.0
PSY 364	Computer-assisted Data Analysis I	3.0
	Economics elective	4.0
PSY 212	Physiological Psychology	3.0
or		
PSY 230	Psychology of Learning	3.0
<i>Term credits</i>		16.0
Term 7		Credits
PSY 365	Computer-Assisted Data Analysis II	3.0
	Three electives	9.0
	History elective	3.0
<i>Term credits</i>		15.0
Term 8		Credits
	Four electives	12.0
	History elective	3.0
	Advanced Psychology elective	3.0
<i>Term credits</i>		18.0
Term 9		Credits
	Three electives	9.0
	Advanced Psychology elective	3.0
<i>Term credits</i>		12.0
Term 10		Credits
PSY 401	History and Systems	3.0
PSY 490	Psychology Research Seminar I ¹	4.0
	Two electives	6.0
<i>Term credits</i>		13.0
1	Students who do not wish to elect the research seminar sequence are required to take four additional advanced psychology electives instead.	
Term 11		Credits
PSY 491	Psychology Research Seminar II ¹	4.0
	Three electives	9.0
<i>Term credits</i>		13.0
1	Students who do not wish to elect the research seminar sequence are required to take four additional advanced psychology electives instead.	
Term 12		Credits
PSY 492	Psychology Research Seminar III ¹	4.0
	Three electives	9.0
<i>Term credits</i>		13.0
1	Students who do not wish to elect the research seminar sequence are required to take four additional advanced psychology electives instead.	
Total credits (minimum)		182.0



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Sociology

About the Major

Sociology is a broad discipline dealing with interpersonal behavior. It examines the behavior of social units as small as the family or two people riding an elevator and as large as a company, a city, a country, or the entire world. Because sociology critically examines "truths" frequently taken for granted, it does more than offer its own distinctive area of information. Training in sociology leads to a mode of critical thinking that enables one to push beyond established boundaries. Such a skill is invaluable in a wide range of professions.

Community-based research is done with and for community groups. It is research in which the community groups themselves help set the agenda of research questions so that the results are directly useful to them. It is a way through which the University as a whole can become more engaged with the wider community. Students play a central role in this approach. They go out into the community to acquire hands-on experience relating to their classroom work.



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Prospective Students

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Sociology

Bachelor of Science Degree: 182.0 credits

Degree Requirements

General requirements		Credits
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	
or		
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
MATH 101	Introduction to Analysis I	
or		
MATH 121	Calculus I	4.0
MATH 102	Introduction to Analysis II	
or		
MATH 122	Calculus II	4.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	Economics elective	4.0
	Fine arts elective	3.0
	History electives	6.0
	Philosophy elective	3.0
One of the following courses		3.0
ENGL 200 WI	Classical to Medieval Literature	
ENGL 201	Renaissance to the Enlightenment	
ENGL 202 WI	Romanticism to Modernism	
One of the following course sequences		8.0

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
or		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0
Total credits		61.0

Other courses	Credits
Free electives	40.0-46.0

Departmental requirements	Credits
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210 Worldview: Science, Religion, Magic	3.0
ANTH 370 Ethnographic Methods	3.0
ANTH 410 Cultural Theory	3.0
SOC 364 Computer-Assisted Data Analysis I	3.0
SOC 365 Computer-Assisted Data Analysis II	3.0
SOC 101 Introduction to Sociology	3.0
SOC 250 Research Methods I	3.0
SOC 260 WI Classical Social Theory	3.0
SOC 270 Theory of Applied and Community Sociology	3.0
SOC 350 Research Methods II	3.0
SOC 370 Practicum in Applied and Community Sociology	3.0-9.0
SOC 470 WI Social Change and Social Planning	3.0
SOC 490 Directed Studies: Sociology Research Seminar I*	4.0
SOC 491 Sociology Research Seminar II*	4.0
SOC 492 Sociology Research Seminar III*	4.0
Substantive sociology electives**	24.0
Total credits	75.0 - 81.0

*Students who do not wish to elect the research seminar sequence are required to take four additional sociology electives.

**Substantive electives	Credits
ANTH 110 The Human Past	3.0
ANTH 120 Biblical Archaeology	3.0
ANTH 220 Aging in Cross-Cultural Perspective	3.0
ANTH 310 Societies in Transition	3.0
SOC 110 Sociology of the Future	3.0
SOC 115 Social Problems	3.0

SOC 120	Sociology of the Family	3.0
SOC 125	Sociology of the Aging	3.0
SOC 205	Criminology and Social Justice	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 215	Industrial Sociology	3.0
SOC 220	Wealth and Power	3.0
SOC 235	Sociology of Health	3.0
SOC 230	Women and Men in a Changing Society	3.0
SOC 240	Urban Sociology	3.0
SOC 245	Sociology of the Environment	3.0
SOC 320 WI	Sociology of Deviant Behavior	3.0
SOC 330	Developing Nations	3.0
SOC 335	Sociology of Education I	3.0
SOC 336	Sociology of Education II	3.0
SOC 460 WI	Contemporary Social Theory	3.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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Recommended Plan of Study

BS Sociology

Bachelor of Science Degree

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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
PSY 101	General Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
<i>Term credits</i>		14.0
Term 2		Credits
CS 161	Introduction to Computing	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Sociology concentration course	3.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis II	4.0
<i>Term credits</i>		14.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
SOC 270	Theory of Applied and Community Sociology	3.0
SOC 260 WI	Classical Social Theory	3.0
<i>Term credits</i>		16.0
Term 4		Credits
ANTH 210	Worldview: Science, Religion, Magic	3.0
SOC 250	Research Methods I	3.0
	History elective	3.0
	Sociology concentration course	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
<i>Term credits</i>		16.0
Term 5		Credits
SOC 350	Research Methods II	3.0
ANTH 380	Special Topics in Anthropology: Ethnographic Methods	3.0
	History elective	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.0
or		
PHYS 104	General Physics II	4.0
<i>Term credits</i>		13.0
Term 6		Credits

SOC 364	Computer-Assisted Data Analysis I	3.0
	Economics elective	4.0
	Philosophy elective	3.0
	Sociology concentration course	3.0
ENGL 200	Classical to Medieval Literature	3.0
or		
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202 WI	Romanticism to Modernism	3.0
	<i>Term credits</i>	16.0
Term 7		Credits
SOC 365	Computer-Assisted Data Analysis II	3.0
SOC 370	Practicum in Applied and Community Sociology	3.0-9.0
	Elective	3.0
	Sociology concentration course	3.0
ENGL 204	Post-Colonial Literature II	3.0
or		
ENGL 203 WI	Post-Colonial Literature I	3.0
	<i>Term credits</i>	15.0-21.0
Term 8		Credits
	Three electives	9.0
	Fine Arts elective	3.0-4.0
	Two sociology concentration courses	6.0
	<i>Term credits</i>	18.0-19.0
Term 9		Credits
SOC 490	Directed Studies: Sociology Research Seminar I	4.0
	Three electives	9.0
	Sociology concentration course	3.0
	<i>Term credits</i>	16.0
Term 10		Credits
ANTH 410	Cultural Theory	3.0
SOC 491	Sociology Research Seminar II	4.0
	Two sociology concentration courses	6.0
	<i>Term credits</i>	13.0
Term 11		Credits
SOC 492	Sociology Research Seminar III	4.0
	Four electives	12.0
	<i>Term credits</i>	16.0
Term 12		Credits
	Electives	15.0
	<i>Term credits</i>	15.0
Total credits (minimum)		182.0



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Unified Science

A growing number of careers require a strong foundation in science and mathematics, one that emphasizes a broad, balanced view rather than an intensive study of a single discipline. Patent attorneys, science writers and illustrators, textbook editors, and high school science and mathematics teachers are among those who require such a background.

The unified science major provides a strong grounding in science and mathematics. The foundation in chemistry, biology, physics, and mathematics, combined with electives, permits students adequate latitude to plan with an advisor a highly individualized program. Special requirements, such as courses for entrance to medical school or law school, should be identified as early as possible so they can be scheduled into the program.

Unified science students also complete a range of liberal arts requirements, and they have the opportunity to take a wide variety of electives in the sciences and other areas. Because of this flexibility, each student can develop a highly individualized program.

Unified science may be an appropriate choice for students preparing for professional studies in medicine, dentistry, veterinary medicine, law, or other areas. It is an ideal option for those who wish to combine science studies with another field, such as business or technical and science communication.

Because the major includes much flexibility in course scheduling, unified science students are able to complete one or two minors, or even a second major. Teacher certification is also available as a complement to the unified science major. Drexel offers certification in elementary education and secondary education (biology, chemistry, earth and space science, environmental education, general science, mathematics, or physics).

Students who are interested in the sciences but who aren't yet sure of a specific major should also explore the unified science option. The major allows these students to start their undergraduate studies while considering their interests in science and mathematics, bioscience and biotechnology, chemistry, computer science, environmental science, mathematics, nutrition and food science, and physics and atmospheric science. Unified science students may also take advantage of the University's offerings in the humanities and social sciences, business, design arts, engineering, and information science and technology.



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Unified Science

Bachelor of Science Degree: 185.5 credits

Degree Requirements

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Calculus IV	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0
UNIV 101	The Drexel Experience	2.0
Business electives		6.0
Computer programming		3.0
Liberal studies electives		12.0
Free electives		40.0

Science requirements		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 306	Biochemistry Laboratory	5.5
BIO 311	Metabolism	4.0
BIO 404	Structure and Function of Biomolecules	4.0
CHEM 101	General Chemistry I	4.0
CHEM 102	General Chemistry II	4.0
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0

PHYS 111	Physics I	4.5
PHYS 112	Physics II	4.5
PHYS 211	Physics III	4.5
PHYS 217	Thermodynamics	4.0
PHYS 222	Modern Physics	4.0
	Science sequence	8.0
	Science elective	8.0

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog. Students should check the section comments in Banner when registering. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's [Writing-Intensive Course](#) page.

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Recommended Plan of Study

BS Unified Science

Bachelor of Science Degree

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Term 1		Credits
CHEM 101	General Chemistry I	4.0
ENGL 101	Expository Writing and Reading	3.0
BIO 121	Physiology of Nutrition	4.5
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 2		Credits
CHEM 102	General Chemistry II	4.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
BIO 122	Cells and Genetics	4.5
UNIV 101	The Drexel Experience	1.0
<i>Term credits</i>		16.5
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
BIO 123	Organismal Diversity and Ecology	4.5
<i>Term credits</i>		16.0
Term 4		Credits
CHEM 241	Organic Chemistry I	4.0
MATH 200	Calculus IV	4.0
PHYS 112	Physics II	4.5
	Elective	3.0
<i>Term credits</i>		15.5
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
PHYS 211	Physics III	4.5
MATH 201	Linear Algebra	4.0
	Elective	3.0
<i>Term credits</i>		15.5
Term 6		Credits
MATH 210	Differential Equations	4.0
PHYS 212	Physics IV	4.0
BIO 306	Biochemistry Laboratory	2.0
BIO 311	Metabolism	4.0
	Liberal Arts elective	3.0
<i>Term credits</i>		17.0
Term 7		Credits
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques in Molecular Biology	2.5
BIO 404	Structure and Function of Biomolecules	4.0
	Elective	3.0
	Liberal Arts elective	3.0
<i>Term credits</i>		15.5
Term 8		Credits

BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques in Cell Biology	2.5
PHYS 217	Thermodynamics	4.0
	Liberal Arts elective	3.0
	Science sequence I	4.0-4.5
	<i>Term credits</i>	<i>16.5-17.0</i>
Term 9		Credits
	Computer programming elective	3.0
	Liberal Arts elective	3.0
	Science elective	4.0
	Science sequence II	4.0
	<i>Term credits</i>	<i>14.0</i>
Term 10		Credits
	Four electives	12.0
	Business elective	3.0
	<i>Term credits</i>	<i>15.0</i>
Term 11		Credits
	Two electives	6.0
	Business elective	3.0
	Science elective	4.0
	<i>Term credits</i>	<i>13.0</i>
Term 12		Credits
	Electives	13.0
	<i>Term credits</i>	<i>13.0</i>
Total credits (minimum)		184.0



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Minor in Africana Studies

The minor in Africana studies was created to provide the opportunity for undergraduate students throughout the University to gain an understanding of and background in the history and cultures of peoples of African descent in North and South America, the Caribbean, and Africa. This interdisciplinary minor includes courses in anthropology, history, literature, music, political science, and sociology, and provides an opportunity for directed study in areas of particular interest to the students. The Africana studies minor has intrinsic intellectual value and helps prepare individuals to become contributors to an increasingly pluralistic society. At the same time, this minor allows students who plan vocations in business, the sciences, engineering, government, and social services to present to prospective employers a unique academic background that includes specialized knowledge in the history and cultures of African peoples.

Students are required to take 24 credits: 6 required credits and 18 elective credits.

Required courses

	Credits
AFAS 101 Introduction to Africana Studies	3.0
AFAS 201 Cross-Currents in Africana Studies	3.0

Six of the following courses

	Credits
AFAS 295 Special Topics in Africana Studies	3.0
AFAS 298 Independent Study for Minors: Global Urban Education: I, II, III	.5 - 3.0
ANTH 101 Cultural Diversity	3.0
ANTH 310 Societies in Transition: The Impact of Modernization and the Third World	3.0
ENGL 203 WI Post-Colonial Literature I	3.0
ENGL 204 Post-Colonial Literature II	3.0
ENGL 325 Special Topics in World Literature: Latin American Literature	3.0
HIST 211 African-American History in the 20th Century	3.0
HIST 298 American Slavery	3.0
MUSC 107 Jazz Ensemble and Combo	3.0
MUSC 333 African-American Music in the United States	3.0
PSCI 354 US & Third World Politics	3.0
PSCI 472 Special Studies in Political Science: Urban Politics	3.0
WMST 240 Women in Society/Global Context	3.0
WMST 280 Special Topics in Women's Studies: Language, Gender and Power	3.0



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Minor in American Studies

American studies is an interdisciplinary approach to studying American life and culture. Drawing on the expertise and methodologies of a variety of subjects, American studies offers students the opportunity to examine their world critically and understand their place in it. American studies is an ideal minor for students planning for graduate work or professional careers in business, engineering, and law because it grounds these practical fields in a strong humanistic tradition.

Students are required to take 24 credits of coursework from the following categories:

Courses	Credits
One of the following courses	3.0
HIST 201 US History to 1815	3.0
HIST 202 US History, 1815-1900	3.0
HIST 203 US History since 1900	3.0
Two of the following courses	6.0
HIST 210 African-American History, 19th Century	3.0
HIST 211 African-American History, 20th Century	3.0
HIST 220 History of American Business	3.0
HIST 221 Labor in the Age of Technology	3.0
HIST 224 Women in American History	3.0
HIST 232 The American Revolution	3.0
HIST 234 US Civil War	3.0
PSCI 110 American Government*	4.0
Two of the following courses	6.0
PSCI 310 American Political Parties and Pressure Groups	3.0
PSCI 313 State and Local Government	3.0
PSCI 330 Public Opinion and Propaganda	3.0
PSCI 360 Constitution and the Judicial Process	3.0
PSCI 363 Civil Liberties	3.0
PSCI 365 Politics, Law, and Justice	3.0

Two of the following courses

6.0

ENGL 205 WI	American Literature I	3.0
ENGL 206 WI	American Literature II	3.0
ENGL 245	American Ethnic Literature	3.0
MUSC 336	History of Jazz	3.0
MUSC 338 WI	American Popular Music	3.0
SOC 210	Race and Ethnic Relations	3.0

*** Or, if a History & Politics major, PSCI 110 may be substituted with a third course from the PSCI courses listed.**



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Minor in Anthropology

The anthropology minor provides students in other fields with a cross-cultural awareness that will enable them to interact with a variety of people in a wide range of situations. By giving students a respect for and understanding of the basis of cultural variation, the minor can facilitate working in international settings. Even for students working within the United States, anthropology offers increased sensitivity to ethnic and population diversity. Medicine, law, counseling, nursing, and nutrition are only a few of the fields in which clients and professionals may come from different parts of our heterogeneous society.

Required (core) courses	Credits
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 110 The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ANTH 210 Worldview: Science, Religion, Magic	3.0
ANTH 410 Cultural Theory	3.0
Four of the following courses	12.0
ANTH 120 Biblical Archaeology	3.0
ANTH 212 Topics in World Ethnography	3.0
ANTH 220 Aging in Cross-Cultural Perspectives	3.0
ANTH 310 Societies in Transition	3.0
ANTH 312 Approaches to Intercultural Behavior	3.0
ANTH 380 Special Topics in Anthropology: Ethnographic Methods	3.0
SOC 230 Women and Men in a Changing Society	3.0
SOC 330 Developing Nations	3.0



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Minor in Astrophysics

Astrophysics brings together many disparate areas of physics—gravitational physics govern the evolution of galaxies and clusters, nuclear physics dominates the cores of stars, electromagnetism governs the radiation that we use to observe these objects. Students majoring in mathematics and computer Science, as well as other disciplines, are often fascinated by the questions raised by astrophysics. The minor in astrophysics requires a total of 26.0 credits in addition to the required prerequisite courses.

Required Prerequisite Courses*		Credits
PHYS 113	Contemporary Physics I	5.0
PHYS 114	Contemporary Physics II	5.0
PHYS 115	Contemporary Physics III	5.0

Required Courses

PHYS 311	Classical Mechanics I	4.0
PHYS 312	Classical Mechanics II	4.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 231	Introductory Astrophysics	3.0
PHYS 232	Observational Astrophysics	3.0
PHYS 431	Galactic Dynamics	3.0
PHYS 432	Cosmology	3.0
PHYS 409	Astrophysics Seminar**	2.0

*Physics 111/112/211 or tDEC 111/113/115/201 will also satisfy the prerequisite requirements.

**Two terms, one credit each term.

Note: Because of the overlap in requirements between the astrophysics and the physics minors, a student would be prohibited from minoring in both.

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Minor in Bioinformatics

The bioinformatics minor examines the application of computer technology and programming to biological fields such as genomics or proteomics. This multidisciplinary program is designed for students majoring in biomedical engineering, bioscience, computer science, information systems, or mathematics. Combination with other majors is possible through consultation with the program director. The minor is divided among courses in biology, programming and computation, human-computer interface design, databases, and statistics.

Students must complete a minimum of 24 credits of coursework as follows:

Core courses		Credits
BIO 331	Bioinformatics I	3.0
BIO 332	Bioinformatics II	3.0
Two senior research project courses*		6.0

* Until research project courses are developed specifically for this minor, the department will accept whatever research project(s) the student has taken as part of their major under the number for that major.

Area-specific courses

In each of the following five areas, the requirements of a student's major cover some of the competencies for Bioinformatics, while the remaining requirements will be fulfilled within the minor itself.

A plan of study is determined by an [Advisor in the Department of Bioscience and Biotechnology](#) based on the student's major field of study. Thus, the requirements for completing the minor are determined on a case-by-case basis. Possible options for area-specific courses include the following:

Bioscience

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	2.5
BIO 449	Recombinant DNA Laboratory	5.0
NFS 400	Nutritional Chemistry	3.0
NFS 401	Nutritional Chemistry Laboratory	1.0

Programming and Computation

CS 171	Computer Programming I	3.0
CS 172	Computer Programming II	3.0
CS 260	Data Structures	3.0

INFO 102	Introduction to Information Systems	3.0
Human/Computer Interface Design		
CS 337	Human-Computer Interaction	3.0
INFO 110	Human-Computer Interaction I	3.0
Databases		
CS 461	Database Systems	3.0
INFO 200	Systems Analysis I	3.0
INFO 210	Database Management Systems	3.0
Statistics		
MATH 310	Introduction to Probability and Statistics	4.0
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0
BIO 440	Biometry	3.0
BIO 441	Data Analysis in Bioscience	3.0



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Minor in Biological Sciences*

The minor biological sciences is designed for students who wish to become acquainted with the life sciences while pursuing a major in another area. This option should be particularly useful for students majoring in areas such as chemistry, engineering, physics, or psychology who are interested in admission to medical schools or graduate programs. Students interested in the minor should consult with an academic adviser in the department for help with course selections.

For the minor in Biological Sciences, students must complete 38 credits of coursework as follows:

Required courses		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 404	Structure and Function of Biomolecules	4.0
BIO 306	Biochemistry Laboratory	2.0
BIO 460	Evolution	3.0
BIO 471	Seminar in Biological Science	2.0

*Note: The department also offers a minor in [Bioinformatics](#) specifically designed for students majoring in biomedical engineering, bioscience, computer science, information systems, or mathematics.



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Minor in Chemistry

The academic minor program in chemistry is designed to expose students to each of the major sub-disciplines of chemistry (analytical, inorganic, organic, and physical). In order to accomplish this students take a total of at least 27.5 credits of chemistry past the freshman year (100 level courses).

As chemistry is an experimental science at least two laboratory courses must be included in the group of courses taken for the minor. Students should note that their academic major may require certain chemistry courses that can also be used to fulfill the requirements for a minor in chemistry.

Required courses		Credits
CHEM 241	Organic Chemistry I	4.0
CHEM 230	Quantitative Analysis	3.0
CHEM 251	Physical Chemistry I*	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 244	Organic Chemistry I Laboratory	3.0
	A second Chemistry laboratory course	3.0

* Students may substitute [CHEC 352](#) Physical Chemistry II (4 credits) or [CHEC 353](#) Physical Chemistry III (4 credits) for the CHEM 251 physical chemistry lecture requirement.

The remaining credits can be selected from any of the regularly offered chemistry department lecture or laboratory courses 200-level and above according to specific interests. Note that existing course pre-requisites may affect which courses may be selected. The variable credit courses CHEM 493 Senior Research Project or CHEM 497 Undergraduate Research may also be used to fulfill either the lecture or laboratory requirements for the minor.



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Minor in Communication

The minor in communication is a 24-credit curriculum designed to familiarize students with communication theory while providing training in print and electronic communication skills. The minor can provide a strong complement for majors that emphasize presentations, interpersonal skills, publicity, and marketing. Students minoring in communication can focus on Corporate and Public Relations, Journalism, or Technical and Science Communication.

First, three core courses in Communication Studies are required for the minor. Second, students focus on one of the following areas: Journalism or Corporate and Public Relations or Technical and Science Communication. Finally, students complete three additional electives from the Communication curriculum that fit their interest.

Core courses		Credits
COM 210	Theories of Communication	3.0
PHIL 305	Communication Ethics	3.0
COM 380	Special Topics in Communication	3.0
Journalism focus		
COM 260	Fundamentals of Journalism	3.0
WI		
And one of the following courses:		
COM 300	Computer-Assisted Journalism	3.0
COM 315	Advanced Journalism	
COM 390	Global Journalism	
Corporate and Public Relations focus		
COM 270	Business Communication	3.0
COM 280	Public Relations*	3.0
Technical and Science Communication focus		
COM 310	Technical Communication	3.0
COM 320	Science Writing	3.0
or		
COM 375	Grant Writing	
Additional courses		
Three Communication (COM) or Linguistics (LING) electives		9.0



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Minor in Criminal Justice

Students from any major who are interested in the law, legal issues and the forensic sciences may envision a future connection with the criminal justice system. These students could enhance their career possibilities by adding a minor in criminal justice to their major field of study.

The minor consists of four required courses and four criminal justice electives chosen from two categories, for a total of 24.0 credits. Students minoring in criminal justice are assumed to have already taken SOC 101, Introduction to Sociology.

Required courses

SOC 204	Criminology	3.0
SOC 206	Criminal Justice	3.0
SOC 360	Juvenile Justice	3.0
SOC 320	Deviant Behavior	3.0

Criminal Justice Elective Courses

Students select courses from the following two categories of criminal justice electives.

Category I: Students select at least one, but no more than two, courses from the following:

SOC 210	Race and Ethnic Relations	3.0
COM 345	Intercultural Communication	3.0
or		
ANTH 312	Intercultural Behavior	3.0

Category II: Students select two to three courses from the following list to arrive at a minimum* of 24 .0 credits in total for the minor:

COM 355	Ethnography of Communication	3.0
COM 365	Journalists, the Courts, and the Law	3.0
SOC 115	Social Problems	3.0
SOC 120	Sociology of the Family	3.0
SOC 370	Practicum in Criminal Justice	2.0
SOC 390	Internships in Criminal Justice	3.0
SOC 380	Special Topics in Criminal Justice	3.0
PSCI 365	Politics, Law, and Justice	3.0
PSY 150	Introduction to Social Psychology	3.0

PSY 240	Abnormal Psychology	3.0
PSY 370	Forensic Psychology	3.0

* Note: if the practicum and internship are selected in Category II, students will end-up completing 26.0 credits for the minor.



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Minor in Ecology

The minor in ecology meets the needs of engineering, science, arts, applied arts, information, and business students. The minor gives engineering students the ecology, atmospheric science, and chemistry needed for a working knowledge of environmental science. Economics is essential to this minor, since all regulations are now reviewed on a cost-benefit effectiveness basis before they are approved; cost-effectiveness is an essential part of any environmental action. The biodiversity and conservation course pulls all of the environmental information together in the context of the majors of the students in the course and allows students from different majors to interact as they will in the real world after graduation.

Required Courses		Credits
CHEM 241	Organic Chemistry I	4.0
ECON 212	Principles of Economics II (Macro)	3.0
ENVR 260	Environmental Science and Society	3.0
ENVR 338	Biodiversity and Conservation	3.0
ENVR 284 WI	Ecology I: Psychological and Population Ecology	5.0
ENVR 286 WI	Ecology II: Communities and Ecosystems	5.0

One of the following sequences

PHEV 141 WI	Atmospheric Science I: Climate and Global Change	3.0
PHEV 142 WI	Atmospheric Science I Laboratory	1.0
or		
CHEM 230	Quantitative Analysis	3.0
CHEM 231 WI	Quantitative Analysis Laboratory	2.0



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Minor in English

The English minor provides students from other majors with a more intensive background in literature. Coursework in the minor exposes students to literature from a variety of periods, cultures and genres and also provides practice in critical thinking, literary analysis and writing. These courses enrich students' intellectual lives and provide them with skills that are valuable in a variety of professional situations.

Students complete 24.0 credits (8 courses), distributed as follows:

Requirements	Credits
Three of the following survey courses:	9.0 Credits
ENGL 200 WI Classical to Medieval Literature	3.0
ENGL 201 Renaissance to the Enlightenment	3.0
ENGL 202 WI Romanticism to Modernism	3.0
ENGL 203 WI Post-Colonial Literature I:	3.0
ENGL 204 Post-Colonial Literature II:	3.0
ENGL 205 WI American Literature I	3.0
ENGL 206 WI American Literature II	3.0
ENGL 207 WI African American Literature	3.0
ENGL 211 WI British Literature I	3.0
ENGL 212 British Literature II	3.0
One of the following genre courses:	3.0 Credits
ENGL 214 Readings in Fiction	3.0
ENGL 215 WI Readings in Poetry	3.0
ENGL 216 WI Readings in Drama	3.0
Three literature electives:	9.0 Credits
ENGL 300 WI Literature and Science	3.0
ENGL 310 WI Period Studies	3.0
ENGL 315 WI Shakespeare	3.0
ENGL 320 WI Major Authors	3.0
ENGL 325 Topics in World Literature	3.0
ENGL 335 Mythology	3.0
ENGL 355 WI Women and Literature	3.0
One writing elective:	3.0 Credits

WRIT 220	Creative Nonfiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 400 WI	Writing in Cyberspace	3.0

NOTE: Where a course required for the minor is already required for a student's major, the student is directed to choose another English elective. Please note that substitutions are permissible at the discretion of the Program Director.



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Minor in Environmental Health

The minor in environmental health offers practical course material to complement programs in nutrition, dietetics, biology, environmental science, and biomedical science. It could also complement some engineering disciplines, such as chemical engineering and biomedical engineering. The course selection gives students a significant introduction to the effect of various environmental factors—including intrinsic biological rhythms, pathogenic microbes, and toxic chemicals—on the health and well-being of people.

The minor requires a minimum of 24 credits. As many as 9 of these credits can be counted toward some majors, such as bioscience and environmental science.

Required courses	Credits
BIO 201 Human Physiology I	4.0
BIO 203 Human Physiology II	4.0
ENVR 436 Principles of Toxicology I	3.0
BIO 221 Microbiology	5.0
or	
ENVR 316 Sanitary Microbiology	3.0
ENVR 321 Environmental Health	3.0
ENVR 736 Toxicology	3.0
A statistics course	3.0



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Minor in Environmental Issues

The cross-cultural, interdisciplinary minor in environmental issues responds to the growing importance of environmental issues both in this country and in other major areas of the world. It offers in-depth study of issues about which future professionals will need to be well informed in order to operate effectively in the fields of diplomacy, government, politics, developmental policy, international business, and international trade.

The environmental issues minor requires a minimum of 24 credits, including a directed independent study and a minor thesis on environmental issues and public policy. There is also a prerequisite of 6 to 8 credits in environmental biology, ecology, and/or atmospheric science. The minor is administered through the Office of the Dean of the College of Arts and Sciences and is open to students in all disciplines.



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Minor in European Studies

This minor provides students with exposure to the historical, political, social, and cultural development of European civilization. The program focuses on the modern period, but students gain an awareness of the deep historical roots and currents on which the modern experience has been built.

Students are required to take 24 credits of coursework from the following categories:

Courses	Credits
One of the following course sequences	10.0-12.0
HIST 140 Europe and the Modern World I	4.0
HIST 141 Europe and the Modern World II	4.0
PSCI 120 History of Political Thought	4.0
or	
HIST 140 Europe and the Modern World I	4.0
HIST 141 Europe and the Modern World II	4.0
PSCI 140 Introduction to Comparative Political Analysis	4.0
or	
HIST 141 Europe and the Modern World II	4.0
PSCI 120 History of Political Thought	4.0
PSCI 140 Introduction to Comparative Political Analysis	4.0
or	
HIST 162 Themes in World Civilization II	3.0
HIST 163 Themes in World Civilization III	3.0
PSCI 120 History of Political Thought	4.0
or	
HIST 162 Themes in World Civilization II	3.0
HIST 163 Themes in World Civilization III	3.0
PSCI 140 Introduction to Comparative Political Analysis	4.0
Three of the following courses	9.0
HIST 235 The Great War, 1914-1918	3.0
HIST 236 World War II	3.0
HIST 241 Modern France	3.0
HIST 242 Modern Italy	3.0
HIST 243 Germany and the World of Hitler	3.0
HIST 244 20th-century Russia and the USSR	3.0
HIST 247 Modern England, 1815 to Present	3.0
HIST 251 Fascism	3.0

One of the following courses		3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
ARTH 102	History of Art II: Renaissance to Modern	3.0
ARTH 103	History of Art III: Early Modern to Postmodernism	3.0
ENGL 200 WI	Classical to Medieval Literature	3.0
ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 250	Themes in Literature and the Arts	3.0
ENGL 310 WI	Period Studies	3.0
ENGL 315 WI	Shakespeare	3.0
MUSC 231 WI	Ancient, Medieval, and Renaissance Music	3.0
MUSC 233	Music of the Baroque Era	3.0
MUSC 235 WI	18th- and 19th-century Music	3.0
MUSC 237	20th-century Music	3.0



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Minor in Food Science

The minor in food science is designed for students interested in applying the basic sciences to the world's largest industry. The minor should be especially attractive to students in the premedical, chemical, and biological sciences, as it provides a background for excellent employment and post-baccalaureate study opportunities in areas closely allied to their basic disciplines.

The minor consists of 25 credits. Interested students should consult with a nutrition and food science faculty member to schedule courses appropriate for their background and goals.

Required courses	Credits
NFS 200 WI Nutrition I: Principles of Nutrition	4.0
NFS 203 Nutrition II: Nutrition in the Life Cycle	4.0
NFS 270 Microbial Food Safety and Sanitation	4.0
NFS 454 Microbiology and Chemistry of Food Safety	3.0
NFS 458 Nutritional Impact of Food Processing Methods	3.0
NFS 460 WI Food Chemistry	3.0
NFS 461 Food Chemistry Laboratory	4.0



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Minor in History

Students are required to take 24 credits of coursework from the following categories:

Courses	Credits
One of the following history sequences	
HIST 161 Themes in World Civilization I	3.0
HIST 162 Themes in World Civilization II	3.0
HIST 163 Themes in World Civilization III	3.0
or	
HIST 167 Twentieth-century World I	3.0
HIST 168 Twentieth-century World II	3.0
or	
HIST 201 US History to 1815	3.0
HIST 202 US History, 1815-1900	3.0
HIST 203 US History since 1900	3.0
<hr/>	
History & Politics electives	15.0-18.0



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Minor in Human Factors and Ergonomics

The Minor in Human Factors and Ergonomics is intended to meet the needs of the students who have an interest in any type of design and who recognize the importance of taking account of human characteristics, both strengths and weaknesses, in the design of artifacts intended for human use (e.g., equipment, computer software, consumer products, and even entire work environments).

The minor should also be of particular interest to students who have an interest in doing graduate work in Human Factors, Ergonomics, Industrial Design, etc.

Entry into the minor requires that General Psychology (or an equivalent introductory course) be taken as a prerequisite. Students who have completed PSY101 and who are interested in a minor in Psychology are expected to meet with a Psychology Department faculty member to discuss the selection of appropriate courses. No more than three courses that are required for a student's major can count towards fulfilling requirements for the minor.

Required prerequisite	Credits
General Psychology course (PSY 101 or equivalent)	3.0
Required courses	24.0
PSY 212 Physiological Psychology	3.0
PSY 213 Sensation and Perception	3.0
PSY 250 WI Industrial Psychology	3.0
PSY 330 Cognitive Psychology	3.0
PSY 332 Human Factors and Cognitive Engineering	3.0
PSY 337 The Psychology of Human-Computer Interaction	3.0
PSY 360 Experimental Psychology	3.0

One additional course from the following list

BMES 330 Biological Rhythms in Pharmacology and Toxicology	3.0
BMES 350 The Medical and Biological Effects of Light	3.0
BMES 411 Chronoengineering I: Biological Rhythms in Health and Performance	3.0
BMES 412 Chronoengineering II: Sleep Functions in Health and Performance	3.0
INTR 150 Issues of the Interior Environment	3.0
PSY 150 Introduction to Social Psychology	3.0
PSY 230 Psychology of Learning	3.0
PSY 310 Drugs and Human Behavior	3.0
PSY 340 Psychological Testing and Assessment	3.0



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Minor in International Area Studies

The minor requires 24 credits, 12 of which must be in a designated geographical area of focus as determined by the language studied. Language study through level 201 is a prerequisite for the minor.

Prerequisite: completion of Level 201 in a language

Core requirements		Credits
IAS 359	Culture and Values	3.0
PSCI 243	Economic Geography	3.0
INTB 334	International Trade	3.0
or		
INTB 336	International Money and Finance	3.0
ECON 340	International Business	3.0
or		
MKTG 357 WI	International Marketing	4.0

Area studies electives	12.0
------------------------	------

Language courses at level 312 and above and/or courses in literature, history, politics, social theory, and business in the area of specialization



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Apply Online

The Louis Stein Minor in Judaic Studies

The Louis Stein Minor in Judaic Studies, housed within the College of Arts and Sciences, is designed to give students the opportunity to explore and understand the history, culture, politics, and religion of the Jewish people. Through interdisciplinary coursework and directed field study, students investigate the Jewish experience from both a contemporary and a historical perspective.

The Louis Stein Minor in Judaic Studies requires 24 credits: 9 from required courses, and 15 from electives. Students can apply a maximum of 6 credits toward the minor from field study under the supervision of the academic advisor. Currently, the required courses are as follows:

Required courses		Credits
ENGL 350	Jewish Literature and Civilization	3.0
HIST 298	Jewish Life and Culture in the Middle Ages	3.0
HIST 249	Modern Jewish History	3.0

Courses offered as electives have included: Contemporary Jewish Life, Introduction to Yiddish Culture, Israel: Language and Society, The Holocaust, A Thousand Years of Jewish Life Through Yiddish Literature, Jewish Ethical Literature, The American Jewish Experience, Language and Cultural Diversity in the USA, Jewish Spirituality and the Psychology of Happiness, Jewish Women in Literature and History, Biblical Narrative: Images of Leadership, Jewish Cultural Tapestry, Jewish American Writers, and Israeli Cinema.

For more information, contact Kathy Carll, Program Coordinator, Judaic Studies Program, 215-895-6388, judaicstudies@drexel.edu or Professor Rakhmiel Peltz, Director of Judaic Studies, 215-895-1499, rakhmiel.peltz@drexel.edu. The Judaic Studies Program offices are located in Room 331 of Hagerty Library.



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Minor in Mathematics

The minor in mathematics consists of a core requirement of six courses and at least 18 credits of electives from a specified group of mathematics courses, for a total of 41 credits. Please should consult the department for additional information.

Courses		Credits
MATH 121	Calculus I *	4.0
MATH 122	Calculus II*	4.0
MATH 123	Calculus III*	4.0
MATH 200	Calculus IV*	4.0
MATH 201	Linear Algebra*	4.0
	Electives	18.0

*Or equivalent.



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Minors in Modern Languages

Minors in Arabic, Chinese, French, German, Italian, Japanese, Russian, and Spanish are offered. All courses are oral-intensive, with additional hours required in the Language Laboratory, and include individual oral examinations at the end of each term.

In Western languages, enrollments are limited to 15 to 18 students in the first three years of study; fourth-year courses use a seminar format, with a usual enrollment of four to eight students. Chinese, Japanese, Russian and Arabic are taught in a tutorial or "self-instructional" format, with enrollments limited to three to six students. Examinations in these languages are primarily oral and are administered by external examiners appointed by the University. All instructors in Chinese, Japanese, Russian, and Arabic and most instructors in Western languages are native speakers.

Language study is open to all students in the University, and validation of minimal language competence is required for co-operative education placement abroad in countries where English is not the national language. Study for two consecutive terms or through level 103 is the minimum requirement for the B.A. degree, but additional language course work is required by most departments offering this degree.

Students are placed in language courses in accordance with language placement testing administered during freshman orientation and at the beginning of the fall term. Students who do not take advantage of this option must comply with the department's enrollment guidelines.

Certification of Proficiency

The University offers an advanced-level Certification of Proficiency in Western language, based on successful completion of a series of written examinations and an "advanced" rating on the ACTFL oral examination.

Language Minors

Requirements, Western languages

24 credits of language study above the 103 level	24.0
Certification of Proficiency	
Minor thesis in the target language (3.0-4.0 credits possible)	
Oral defense of the minor thesis	

Course options (subject to placement level)

201-203	Advanced Conversation and Composition
---------	---------------------------------------

311- 312; 411	Stylistics; Advanced Stylistics
332; 333	Literature; Advanced Studies in Literature
351	Business and the Professions
451	Advanced Topics in Business and Professions: European Union
371; 471	Civilization; Advanced Studies in Civilization
399; 499	Special Topics: Literature; Business and Civilization*

*Special topics courses may be repeated for credit.

Requirements, non-western languages

24 credits of language study above the 103 level	24.0
Minor thesis in the target language (3.0-4.0 credits possible)	
Oral defense of the minor thesis	

Course options (subject to placement level)

201- 203	Advanced reading, writing, and speaking, Levels IV-VI
301- 303	Stylistics, Levels VII-IX
399	Advanced Independent Study
411	Introduction to Stylistics
431	Introduction to Literature
451	Introduction to Business
RUSS 499	Advanced Seminar in Russian Literature

Modern Languages Faculty

Daniela DePau, Ph.D. , (*University of Illinois at Urbana-Champaign*) *Auxiliary Professor*. Italian cinema, relationship between literature, cinema and other arts, traveling literature, women writers, the tradition of the Comic and the tradition of the Fantastic, autobiography, politics of immigration, cultural identity in contemporary Italy.

Brenda Dyer, (*University of Pennsylvania*) *Auxiliary Professor*. Language acquisition pedagogy, teaching writing, seventeenth and eighteenth century French literature, women writers, translation.

Mariadelaluz Matus-Mendoza, Ph.D., (*Temple University*) *Assistant Professor*. Language variation in Spanish, the relationship between language variation and mobility (social and geographical) among the Mexican communities in Mexico and the United States, first and second language acquisition, bilingualism, theater, baroque and contemporary literature.

Anne-Marie Obajtek-Kirkwood, Ph.D., (*University of Pennsylvania*) *Assistant Professor*. French and Francophone twentieth and twenty-first century literature, French and Francophone history/culture/civilization, French and Francophone film, representations of the occupation and other events or features of French/

Francophone civilization and culture in literature and film, minorities in France, autobiography, feminist issues.

Simone Schlichting-Artur, (*Drexel University*) *Senior Lecturer in German and Director of Modern Languages*. International business communication (Germany and the U.S.), public health policy an languages, German post-war history through film and literature, development of writing assessment tools for German minor.



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Minor in Nutrition

The minor in nutrition is designed for students interested in enhancing their major with an application in human nutrition. The nutrition minor should be especially attractive to students in the premedical, biological, and behavioral neurological sciences, as it provides a background for enhanced employment and post-baccalaureate study opportunities in areas closely allied to their basic disciplines.

The minor consists of 25 credits. Interested students should consult with a nutrition and food science faculty member to schedule courses appropriate for their background and goals.

Required courses		Credits
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 415	Advanced Nutrition I: Macronutrients and Energy	4.0
NFS 416	Advanced Nutrition II: Micronutrients and Control	4.0
Three of the following courses		
NFS 101	Introduction to Nutrition and Foods	3.0
NFS 154	Foods: Composition, Interaction and Formulations	4.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 391 WI	Community Nutrition	4.0
NFS 431	Nutrition Counseling	4.0
NFS 443	Therapeutic Nutrition I	3.0
NFS 444 WI	Therapeutic Nutrition II	3.0



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Minor in Philosophy

The Minor in Philosophy combines the rigor of traditional philosophical inquiry with an interest in practical contemporary problems. The emphasis, both in the structure of the course requirements and in content, is on a critical concern with actual issues and modes of reasoning in determining solutions. This focus serves Drexel University's mission of providing practical professional instruction. It will also serve students who seek employment in industry and business (employers have noted an interest in graduates trained in careful philosophical and logical analysis) as well as those applying to graduate school in the professions. Besides familiarity with professional issues, philosophically trained students score second only to mathematics majors on Graduate Record Examinations (GREs).

Students who have completed 30 credit hours at Drexel University may apply for the academic Minor in Philosophy. The student will apply by completing the "Declaration of Minor" form available in the Office of Student Information and Records, and submitting it to the Director of the Program in Philosophy. Upon receipt of the "Declaration of Minor" form, the Director will review the student's academic record to ascertain that the student has completed the required number of credit hours and that he or she is in good standing at the University. Permission to undertake the Minor in Philosophy will require the approval of both the Director of the Program in Applied Philosophy and the Dean of the college in which the student is enrolled.

The Minor in Philosophy requires completion of 8 courses (24 credit hours) in philosophy, as follows:

Courses		Credits
PHIL 101	Introduction to Philosophy	3.0
PHIL 105	Critical Reasoning	
	or	
PHIL 111	Beginning Logic	3.0
PHIL 211	Metaphysics	3.0
PHIL 221	Epistemology	3.0
PHIL 251	Ethics	3.0

One of the following courses		3.0
PHIL 301	Business Ethics	
PHIL 311	Computer Ethics	
PHIL 315	Engineering Ethics	
PHIL 305	Communication Ethics	
PHIL 321	Biomedical Ethics	

One of the following courses **3.0**

[PHIL 231](#) **Aesthetics**

[PHIL 381 WI](#) **Philosophy in Literature**

[PHIL 391](#) **Philosophy of Religion**

One of the following courses **3.0**

[PHIL 241](#) **Social and Political Philosophy**

[PHIL 351](#) **Philosophy of Technology**

[PHIL 361](#) **Philosophy of Science**

[PHIL 371](#) **Philosophy of Social Sciences**



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Minor in Physics

A minor in physics requires a total of 37.5 credits from among the following courses:

Courses		Credits
PHYS 113	Contemporary Physics I	5.0
PHYS 114	Contemporary Physics II	5.0
PHYS 115	Contemporary Physics III	5.0
PHYS 311	Classical Mechanics I	4.0
PHYS 312	Classical Mechanics II	4.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 326	Quantum Mechanics I	4.0
Electives*		
PHYS 305	Computational Physics II	3.0
PHYS 471	Nonlinear Dynamics	3.0
PHYS 322	Electromagnetic Fields II	4.0
PHYS 327	Quantum Mechanics II	4.0
PHYS 480	Special Topics: Principles of Laser Physics	3.0
PHYS 451	Quantum Structure of Materials	4.0
PHYS 476	Nuclear and Particle Physics	4.0

*The remaining 10.5 credits must be taken at or above the 300-level. See the department for a full list of possible courses.



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Minor in Political Science

Students are required to take 24 credits of coursework from the following categories:

Courses	Credits
Three of the following courses	12.0
PSCI 100 Introduction to Political Science	4.0
PSCI 110 American Government	4.0
PSCI 120 History of Political Thought	4.0
PSCI 140 Introduction to Comparative Political Analysis	4.0
PSCI 150 International Politics	4.0
PSCI 300 Research Methods in Political Science	4.0

Four of the following courses	12.0-13.0
PSCI 240 Comparative Government	3.0
PSCI 255 International Political Economy	4.0
PSCI 270 Problems of Individual Liberty vs. Governmental Authority	3.0
PSCI 310 American Political Parties and Pressure Groups	3.0
PSCI 313 State and Local Government	3.0
PSCI 315 Public Administration	3.0
PSCI 317 Legislative Behavior	3.0
PSCI 319 Executive Behavior	3.0
PSCI 327 Democratic Theory	3.0
PSCI 329 Theories of Justice	3.0
PSCI 330 Public Opinion and Propaganda	3.0
PSCI 340 Politics of Developing Nations	3.0
PSCI 345 Comparative Politics of the Middle East	3.0
PSCI 355 American Foreign Policy	3.0
PSCI 358 Political Economy of Japan	3.0
PSCI 360 The Constitution and the Judicial Process	3.0
PSCI 363 Civil Liberties	3.0
PSCI 365 Politics, Law, and Justice	3.0
PSCI 370 Topics in Public Policy	3.0



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Minor in Psychology

The minor in Psychology is intended to meet the needs of students who recognize that an understanding and analysis of individual psychological processes is an important component of their education. The minor may also be of interest to students who have an interest in a double major but are unable to satisfy all of the requirements in two major fields.

Entry into the minor requires that General Psychology (or an equivalent introductory course) be taken as a prerequisite. Students who have completed PSY101 and who are interested in a minor in Psychology are expected to meet with a Psychology Department faculty member to discuss the selection of courses appropriate to their major and their own personal interests. No more than three courses that are required for a student's major can count towards fulfilling requirements for the minor.

Required prerequisite		Credits
General Psychology course (PSY 101 or equivalent)		3.0
Required courses (Select eight of the following courses)		24.0
PSY 120	Developmental Psychology	3.0
PSY 140	Approaches to Personality	3.0
PSY 150	Introduction to Social Psychology	3.0
PSY 210	Comparative Psychology	3.0
PSY 212	Physiological Psychology	3.0
PSY 213	Sensation and Perception	3.0
PSY 230	Psychology of Learning	3.0
PSY 240	Abnormal Psychology	3.0
PSY 260	Research Methods in Psychology	3.0
PSY 330	Cognitive Psychology	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 245 WI	Sports Psychology	3.0
PSY 250 WI	Industrial Psychology	3.0
PSY 252	Death and Dying	3.0
PSY 310	Drugs and Human Behavior	3.0
PSY 322	Advanced Developmental Psychology	3.0
PSY 332	Human Factors and Cognitive Engineering	3.0
PSY 337	The Psychology of Human-Computer Interaction	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 343	Counseling Psychology	3.0
PSY 350	Advanced Social Psychology	3.0

PSY 360	Experimental Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PSY 365	Computer-Assisted Data Analysis II	3.0
PSY 401	History and Systems	3.0
PSY 410	Neuropsychology	3.0
PSY 442	Theories and Practice in Clinical Psychology	3.0
PSY 480	Directed Studies in Psychology	Variable



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Minor in Science, Technology, and Human Affairs

This minor affords students the opportunity to obtain in-depth exposure to the political and social issues related to modern science and technology. The program provides knowledge and skills useful in many areas of professional employment or as preparation for graduate and professional study.

Students are required to take 24 credits of coursework from the following categories:

Courses		Credits
HIST 280	History of Science I	3.0
HIST 281	History of Science II	3.0

Three of the following courses		9.0
HIST 220	History of American Business	3.0
HIST 285	Technology in Historical Perspective	3.0
HIST 290	Technology and the World Community	3.0
HIST 292	Technology in American Life	3.0
PSCI 371	Science, Technology, and Public Policy	3.0

Three of the following courses		9.0
ANTH 210	Worldview: Science, Religion, Magic	3.0
ENGL 255	Women and Literature	3.0
ENGL 300 W	Literature and Science	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0
SOC 110	Sociology of the Future	3.0



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Minor in Sociology

The sociology minor is designed to give students specializing in other fields a broader knowledge of contemporary social issues and the ability to analyze them in a reasoned fashion. For students majoring in such fields as business and engineering, the minor helps develop skills in critical thinking that go beyond the acquisition of specialized, professional techniques. For students majoring in another area of the liberal arts, the minor offers the opportunity to place the issues raised in the major discipline within a larger social context.

Required courses	Credits
SOC 250 Research Methods I	3.0
SOC 260 WI Classical Social Theory	3.0
SOC 460 WI Contemporary Social Theory	3.0
Five of the following courses	15.0
ANTH 220 Aging in Cross-Cultural Perspective	3.0
ANTH 310 Societies in Transition	3.0
SOC 110 Sociology of the Future	3.0
SOC 115 Social Problems	3.0
SOC 120 Sociology of the Family	3.0
SOC 125 Sociology of the Aging	3.0
SOC 205 Criminology and Social Justice	3.0
SOC 210 Race and Ethnic Relations	3.0
SOC 215 Industrial Sociology	3.0
SOC 220 Wealth and Power	3.0
SOC 225 Technology and Aging in Industrial Societies	3.0
SOC 230 Women and Men in a Changing Society	3.0
SOC 235 Sociology of Health	3.0
SOC 310 Topics in Political Sociology	3.0
SOC 320 WI Sociology of Deviant Behavior	3.0
SOC 330 Developing Nations and the International Division of Labor	3.0
SOC 335 Sociology of Education and Literacy I	3.0
SOC 336 Sociology of Education and Literacy II	3.0
SOC 340 Working with the Older Adult	3.0
SOC 350 Research Methods II	3.0
SOC 470 WI Social Change and Social Planning	3.0



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Minor in Women's Studies

The minor in women's studies is intended to give students a broad, interdisciplinary understanding of the ways in which gender interacts with race, age, class, and sexual orientation to shape human consciousness and the social, political, and cultural organization of society. In addition, the minor is intended to enrich the educational experience of students. It may also provide both men and women with tools for understanding and coping with the larger societal systems in which they must operate as both students and professionals. Because business and industry are increasingly sensitive to issues such as sex discrimination, sexual harassment, equal pay for comparable work, parental leave, and day care, students with a minor in women's studies will have a definite edge over other applicants for managerial and policy-making positions.

Students are required to take 24 credits of coursework as follows:

Required courses	Credits
WMST 101 Introduction to Women's Studies	3.0
WMST 301 Seminar in Feminist Theory	3.0
Electives*	18.0

*Chosen from an approved list including departmentally cross-linked courses and WMST 201 (Special Topics) courses.

Electives include	Credits
ENGL 355 Women and Literature	3.0
WI	
HIST 223 Women and Work in America	3.0
HIST 224 Women in American History	3.0
HIST 286 Explorations in Tech and Gender: A World Without Women	3.0
HIST 586 Gender and Technology*	3.0
PSCI 573 Gender, Race, and Science*	3.0
PSY 480 Women and Health Psychology	3.0
WI	

SOC 230	Women and Men in a Changing Society	3.0
WMST 201	Special Topics in Women's Studies	3.0
WMST 299	Independent Study	up to 6.0

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Minor in World History and Politics

This minor introduces students to the historical and political development of societies beyond the American and European context. The 20th-century experiences of decolonization, modernization, and development in Africa, Asia, Latin America, and the Islamic world are given special attention.

Students are required to take 24 credits as follows:

Courses	Credits
One of the following courses	3.0
HIST 141 Europe and the Modern World II	3.0
HIST 163 Themes in World Civilization III	3.0
HIST 167 Twentieth-century World I	3.0
HIST 168 Twentieth-century World II	3.0

Two of the following courses	6.0
HIST 238 The Vietnam War	3.0
HIST 263 The World and China	3.0
HIST 264 East Asia in Modern Times	3.0
HIST 270 Introduction to Latin American History WI	3.0
HIST 271 History of Mexico	3.0

Three of the following courses	9.0-10.0
PSCI 150 International Politics	4.0
PSCI 240 Comparative Government	3.0
PSCI 323 Comparative Political Thought	3.0
PSCI 340 Politics of Developing Nations	3.0
PSCI 345 Comparative Politics of the Middle East	3.0
PSCI 355 American Foreign Policy	3.0
PSCI 358 Political Economy of Japan	3.0

One course each from two of the following sequences	6.0
ENGL 203 WI Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204 Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	
ENGL 325 Topics in World Literature	

ECON 340	International Business	3.0
ECON 342	Economic Development	
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210	Worldview: Science, Religion, Magic	
ANTH 310	Societies in Transition: The Impact of Modernization and the Third World	
SOC 330	Developing Nations and the International Division of Labor	
MUSC 331	World Musics	3.0
	Appropriate art course	



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Certificate in Humanities, Health Sciences and Society

18.0 credits

About the program

Designed for students majoring in any of the humanities, social sciences, biological sciences, health professions, or nursing, the Certificate in Humanities, Health Sciences and Society aims to promote dialogue and mutual appreciation for various approaches to health related issues.

The primary goal of the program is to provide students with an interdisciplinary framework for systematically studying the multiple dimensions of illness, healing, and mortality from both personal and cultural perspectives. This format allows students to explore the limitations of exclusively scientific, quantitative approaches to illness and healing.

The choice of courses within designated disciplines fosters the kind of focused variety useful in developing a rich perspective on the connections among humanities, health sciences and society in understanding conceptions of the body and care giving. A one-credit seminar specifically designed for students in this program (to be taken once during each academic year for a total of three credits) further provides intellectual cohesiveness and a sense of community leading up to the capstone Seminar in "Humanities, Health Sciences and Society." Advisors to the program will help students choose courses best suited for their personal and professional interests. Applicable courses may change as new courses are offered by various departments.

Opportunities

Those students who successfully complete the program will receive a certificate in Humanities, Health Sciences and Society. This certificate highlights the student's proficiency in an interdisciplinary approach to health related issues not easily visible through a list of courses on a transcript.

This distinction should enhance students' professional opportunities, whether in employment, graduate studies—including medical school—and research. The training acquired through the requirements for the certificate will also deepen student's experiences in these arenas once they embark on the next stage of their careers.

Additional information

For additional information, contact the program directors:

Emilie. S. Passow, Ph.D.
Department of English and Philosophy
College of Arts and Sciences, Drexel University
ep43@drexel.edu

David H. Flood, Ph.D.

Requirements		Credits
HUM 315	Perspectives in Humanities, Health Sciences, and Society*	(1.0)
ENGL 470	Capstone Seminar in Humanities, Health Sciences, and Society	4.0

* To be repeated three times, for 3.0 credits total.

Students select one of the following literature courses:

ENGL 370	Topics in Literature and Medicine: Illness and Healing in Literature	3.0
ENGL 370	Special Studies in Literature: The Physician in Literature and Film	3.0
ENGL 209S	Images of Aging in Literature and the Other Arts	3.0
ENGL 210S	Mortality in Literature	3.0
ENGL 325S	Literature and Psychology	3.0

Students select one of the following philosophy courses:

PHIL 321	Biomedical Ethics	3.0
PHIL 361	Philosophy of Science	3.0
PHIL 107S	Ethics and Medicine	3.0

Students select two courses from from the following list. Students must choose their courses from two different disciplines:

Anthropology

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 220	Aging in the Cross-Cultural Perspective	3.0
ANTH 330S	Cultural Anthropology	3.0

Art History

ARTH 102	History of Art II: Renaissance to 18th Century	3.0
ARTH 103	History of Art III: Early to Late Modern Art	3.0
ARTH 320	Art in the Age of Technology	3.0
ARTH 465	Special Topics in Art History	3.0

Biology

BIO 212	Biotechnology	3.0
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Biomedical Engineering

BMES 338	Biomedical Ethics and Law	3.0
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Environmental Science and Policy

ENVR 321	Environmental Health	3.0
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History

HIST 280	History of Science I	3.0
HIST 281	History of Science II	3.0
HIST 285	Technology in Historical Perspective	3.0
HIST 203S	History of Science	3.0
HIST 330S	Global History of Health Care Medicine	3.0

Humanities

HUMN 314S	Medicine and the Arts	3.0
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Nursing

NURS 100 WI	Nursing in Society	3.0
NURS 325	Critical Issues in Nursing	3.0

Psychology

PSY 240	Abnormal Psychology	3.0
PSY 244	Culture and Personality	3.0
PSY 252	Death and Dying	3.0

Sociology

SOC 120	Sociology of the Family	3.0
SOC 125	Sociology of the Aging	3.0
SOC 235	Sociology of Health	3.0
SOC 205S	The Contemporary Family	3.0
SOC 310S	Sociology of Aging	3.0
SOC 320S	Social History of Health Care in America	3.0
SOC 325S	Health, Disease and Healing	3.0
SOC 241S	Women and Health Professions	3.0



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Certificate in Writing and Publishing

About the Program

The Certificate in Writing and Publishing (CWP) offers the opportunity for both professional and personal development through a combination of available courses in professional writing, creative writing and publishing. The certificate will enhance employment opportunities, opening a broad range of professional choices in cooperative employment and in the post-degree job market as skills are acquired. The CWP will improve on-the-job performance as the student develops writing skills and associated professional knowledge.

The program develops core competencies through the synergy of writing and publishing courses. The courses develop the student's skills in writing and publishing both through theory and practical application.

The program has three tracks, each of which leads to a certificate:

- [The Certificate in Professional Writing and Publishing](#)
- [The Certificate in Creative Writing and Publishing](#)
- [The Comprehensive Certificate in Writing and Publishing](#)

Working with an advisor, students will choose not only the track but the courses within the track to develop an individually tailored program. Students can choose courses that will meet the general requirements of the program, while also satisfying their own professional and personal requirements.

Those students who have successfully completed this program will receive a Certificate in Writing and Publishing. The transcript will indicate the completion of the CWP. This certification will indicate proficiency in written communication and familiarity with techniques in publishing in a variety of venues. The Certificate Program in Writing and Publishing, highlights the student's acquisition of skills more than they would be in a list of courses on a transcript.

The completion of the certificate demonstrates the student's commitment to writing and publishing skills. It highlights writing skills of students majoring in business and technical areas; similarly, for students in the humanities and social sciences, it certifies writing and publishing skills, either in creative writing or professional writing.

For additional information, contact the program director:

Miriam N. Kotzin, Ph.D.
Director, Certificate Program in Writing and Publishing
Department of English and Philosophy
Drexel University
Philadelphia, PA 19104



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Certificate in Writing and Publishing

The Certificate in Writing and Publishing requires a minimum of eighteen credits. The program allows students to achieve certification in one or more of the following tracks:

- [Professional Writing and Publishing](#)
- [Creative Writing and Publishing](#)
- [Comprehensive Writing and Publishing](#)

Each track requires the completion of a minimum of six courses (eighteen credits). Tracks can be designed to meet the professional needs and personal interests of the individual student. The director of the program, Dr. Miriam N. Kotzin, will advise the student on selection of a track.

The Professional Writing and Publishing Track offers three options: Business Communication and Publishing; Technical Communication and Publishing; and Journalism. This track is useful for business majors or students in technical or science areas who want to highlight their acquisition of writing skills. For students majoring in the humanities it provides an opportunity to develop areas of writing and publishing competencies in the professional arena. The Creative Writing and Publishing Track, is useful to all students as it encourages personal and professional development through creative writing and a knowledge of publishing. The Comprehensive Track is for students who do not wish to specialize in either of the other two tracks.

Note: Many majors already require one or more of the courses leading to the Certificate in Writing and Publishing or list these courses as recommended electives



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Creative Writing and Publishing

18.0 credits

This track is designed for students who want to develop their creative writing skills either for personal development and expression, or because they recognize that creative writing develops imagination; sharpens clarity of expression; and enhances sensitivity to other people. Creative writing is a good pre-professional concentration for pre-law, pre-med, and the social sciences. The importance of creative writing has been recognized for engineering and for business.

Students select three of the following creative writing courses:

	Credits
WRIT 220 Creative Non-Fiction	3.0
WRIT 225 Creative Writing	3.0
WRIT 301 Writing Poetry	3.0
WRIT 304 Special Topics: (Humor, Autobiography, Writing about the Media)	3.0

Students select one of the following publishing courses:

WRIT 400 Writing in Cyberspace	4.0
WRIT 310 Literary Editing and Publishing	3.0
COM 335 Writing for the World Wide Web	3.0
COM 340 Desktop Publishing	3.0
COM 380 Special Topics: Electronic Publishing	3.0

Students select any two additional Certificate in Writing and Publishing courses, including but not limited to the following:

COM 260 Fundamentals of Journalism	3.0
COM 300 Computer Assisted Journalism	3.0
COM 390 Global Journalism	3.0
COM 380 Special Topics: Advanced Journalism: Investigative Reporting	3.0
COM 270 Business Communication	3.0
COM 310 Technical Communication	3.0
COM 410 Advanced Technical Communication	3.0
COM 370 Advanced Business Communication	3.0
COM 320 Science Writing	3.0
COM 420 Technical Editing	3.0
COM 375 Grant Writing	3.0



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Comprehensive Writing and Publishing

18.0 credits

The Comprehensive Track is designed for students whose majors and minors include writing courses (either as electives or required courses) and whose schedules allow for the additional credits to obtain certification.

Students select two of the following publishing courses:

		Credits
WRIT 400	Writing in Cyberspace	3.0
WRIT 310	Literary Editing and Publishing	3.0
COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
COM 380	Special Topics: Electronic Publishing	3.0

Students select two of the following course sequences from at least two different categories:

Creative writing

WRIT 220	Creative Non-Fiction Any 300-level writing course	3.0 3.0
or		
WRIT 225	Creative Writing Any 300-level writing course	3.0 3.0

Professional writing

COM 270	Business Communication	3.0
COM 310	Technical Communication	3.0
or		
COM 410	Advanced Technical Communication	3.0
COM 370	Advanced Business Communication	3.0

Journalism

COM 260	Fundamentals of Journalism	3.0
COM 300	Computer Assisted Journalism	3.0
or		
COM 390	Global Journalism	3.0



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Professional Writing and Publishing

18.0 credits

The Professional Writing and Publishing track is useful for business majors or students in technical or science areas who want to highlight their acquisition of writing skills. For students majoring in the humanities it provides an opportunity to develop areas of writing and publishing competencies in the professional arena.

This track offers three focus options:

- **Business Communication and Publishing:** For students interested in a career in business.
- **Technical Communication and Publishing:** For students interested in engineering, science, information science and technology and careers in higher education.
- **Journalism:** For students interested in global journalism and international affairs.

Business Communication and Publishing

Required courses	Credits
COM 270 Business Communication	3.0
COM 370 Advanced Business Communication	3.0

Students select one of the following professional writing courses:

COM 320 Science Writing	3.0
COM 420 Technical Editing	3.0
COM 375 Grant Writing	3.0
COM 380 Special Topics (as appropriate, Copy Editing for example)	3.0

Students select one of the following publishing courses:

WRIT 400 Writing in Cyberspace	4.0
WRIT 310 Literary Editing and Publishing	3.0
COM 335 Writing for the World Wide Web	3.0
COM 340 Desktop Publishing	3.0
COM 380 Special Topics: Electronic Publishing	3.0

Students select any two additional Certificate in Writing and Publishing courses, including but not limited to the following:

COM 260 Fundamentals of Journalism	3.0
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COM 300	Computer Assisted Journalism	3.0
COM 390	Global Journalism	3.0
COM 380	Special Topics: Advanced Journalism: Investigative Reporting	3.0
WRIT 220	Creative Non-Fiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 304	Special Topics: (Humor, Autobiography, Writing about the Media)	3.0

Technical Communication and Publishing

Required courses

COM 310	Technical Communication	3.0
COM 410	Advanced Technical Communication	3.0

Students select one of the following professional writing courses:

COM 320	Science Writing	3.0
COM 420	Technical Editing	3.0
COM 375	Grant Writing	3.0

Students select one of the following publishing courses:

WRIT 400	Writing in Cyberspace	4.0
WRIT 310	Literary Editing and Publishing	3.0
COM 335	Writing for the World Wide Web	3.0
COM 340	Desktop Publishing	3.0
COM 380	Special Topics: Electronic Publishing	3.0

Students select any two additional Certificate in Writing and Publishing courses, including but not limited to the following:

COM 260	Fundamentals of Journalism	3.0
COM 300	Computer Assisted Journalism	3.0
COM 390	Global Journalism	3.0
COM 380	Special Topics: Advanced Journalism: Investigative Reporting	3.0
WRIT 220	Creative Non-Fiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 304	Special Topics: (Humor, Autobiography, Writing about the Media)	3.0

Journalism

Required course:

COM 260	Fundamentals of Journalism	3.0
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Students select two of the following journalism courses:

COM 300	Computer Assisted Journalism	3.0
COM 390	Global Journalism	3.0
COM 380	Special Topics: Advanced Journalism: Investigative Reporting	3.0

Students select one of the following publishing courses:

WRIT 400	Writing in Cyberspace	4.0
WRIT 310	Literary Editing and Publishing	3.0
COM 335	Writing for the World Wide Web	3.0
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