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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 and Social Sciences. 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, scholarship, and creative activities which expand disciplinary boundaries and 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 undergraduate 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 technologies related to their respective fields.

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

The college is open to transfer students, but (for undergraduate students) 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. The College's 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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The College of Arts and Science

Bachelor of Arts Degree Programs

The Bachelor of Arts degree provides a broad-based liberal education while allowing students the option of practical application of their studies through Drexel's well-established cooperative education program. (In some cases, four-year options or alternatives to the co-op experience are available.)

The BA degree continues the Drexel focus on critical reasoning, a strong grounding in arts and sciences, and effective development of communication skills. The degree is intended to provide a solid liberal arts background for graduate study as well as for professional degrees in such areas as law, public history, foreign service, education, counseling, social work, public health, and medicine.

While the BA degree requires more liberal arts courses than the Bachelor of Science degree, it also allows more varied choices in the fulfillment of math and science requirements and requires study of a foreign language. The BA degree prepares students for an ever changing and culturally diverse world and will provide them with the tools they will need to be leaders in industry, arts, government, and human services.

Bachelor of Science Degree Programs

The College offers Bachelor of Science degrees in the natural and social sciences. The BS degree is similar to the Bachelor of Arts degree, but requires more focused coursework in the sciences than the BA.

In several majors both a BS and a BA are available. Both degrees provide the same foundation in the discipline. The BS is a more structured approach, while the BA allows for more flexibility. Drexel's strong advising program helps students learn more about the degree options and which option matches each student's long-term goals.

Curricular Organization for Science and Mathematics Majors

All Students in the majors in biological sciences, chemistry, mathematics, and physics study similar subjects during the freshman year. This recognizes the fundamental knowledge common to those disciplines; it also allows for transfer between majors at the end of the freshman year without loss of time.

Upper-class students in those disciplines are given the opportunity to take electives in liberal, scientific, and technically related fields.

The flexibility available in the elective programs and the opportunity to complete an academic minor permit students to prepare for continuing studies in graduate or professional school, for work in government or industry, or for a change in educational goals.

Generally the basic requirements in each major are completed prior to the senior year. Thus, for science and mathematics majors, the technical electives in the last year may be selected in some advanced specialty within the specific major, and free electives may be used for enrichment or to prepare for a change of field. Each student's elective program must be approved by an adviser from his or her major department.

Curricular Organization for Humanities and Social Science Majors

Students majoring in the humanities and social sciences complete similar sets of courses in the first two years. Some of these courses may be identical (the freshmen year English sequence) while others will vary by discipline, such as the math and science requirements in the BA and BS options.

Students in the Communication major will take at least one course in their proposed concentration of Public Relations, Global Journalism, or Technical Communication during the freshman year. More intensive work in the concentration begins in the sophomore year, as do elective options.

All humanities and social science students have a significant degree of flexibility, allowing them to complete disciplinary requirements, and, through free electives, to take a minor or perhaps another major to prepare for entry into graduate or professional school.

Secondary and Elementary Teacher Certification

The School of Education offers innovative curricula that combine academic majors with appropriate coursework to satisfy state requirements for certification in English, and sciences—including biology, chemistry, earth and space sciences, physics—as well as mathematics and elementary education. Students interested in the teacher education programs should contact the School of Education.

Accelerated Program and Bachelor's/Master's Dual Degree Program

The Accelerated Program of the College of Arts and Sciences provides opportunities for highly talented and strongly motivated students to complete both an undergraduate degree and a master's degree in one field in five years. Students generally enroll in a five year co-op program, but replace the third six month co-op with courses to complete the graduate degree requirements. Students enrolled in this program may take advantage of the five-year Bachelor's/Master's Dual Degree Program described in the Academic Regulations section.

Preprofessional Programs

Students wishing to prepare for admission to professional schools of medicine, veterinary medicine, dentistry, or public health, may obtain preprofessional counseling and assistance in making application from the Office of Preprofessional Programs, 215-895-2437. For law school admission assistance, students may call 215-895-1632.

Degree Requirements

Certification for graduation is provided by the individual department or program according to the requirements for each major, which are set forth in subsequent pages. The minimum number of credits required for the degrees of Bachelor of Arts and Bachelor of Science varies from one department and program to another but in no case does it exceed 192 credits of academic work with two to six terms of co-operative experience.

Writing-Intensive Course Requirements

In order to graduate, all students 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.

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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 (incoming students, 2010/2011)

General requirements		31.0 - 35.0 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

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

Humanities and Fine Arts		12.0 Credits
LING 102	Language and Society	3.0
COM 150	Mass Media and Society	3.0
	Two Humanities and Fine Arts courses	6.0

Social and Behavioral sciences		12.0 Credits
ANTH 110	The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ANTH 330	Media Anthropology	3.0
COM 355	Ethnography of Communication	3.0
SOC 101	Introduction to Sociology	3.0

International Studies		6.0 Credits
ANTH 310	Societies in Transition	3.0
	International Studies elective	3.0

Studies in Diversity		6.0 Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 215	Anthropology of Gender	3.0

Anthropology requirements		36.0 Credits
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Community Research

SOC 270	Theory of Applied and Community Sociology	3.0
ANTH 370	Ethnographic Methods	3.0
ANTH 390	Seminar in Ethnography	12.0

Methods Sequence

COM 220	Qualitative Research Methods	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

Anthropology Program Requirements **30.0 Credits**

Students select 30.0 credits from the following list :

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 240	Urban Anthropology	3.0
ANTH 255	Psychological Anthropology	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
ANTH 355	Anthropology of Cyberspace	3.0
ANTH 360	Culture and the Environment	3.0
ANTH 365	Family and Kinship	3.0
ANTH 380	Special Topics in Anthropology	3.0
COM 345	Intercultural Communication	3.0
COM 360	International Communication	3.0
SOC 125	Sociology of Aging	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 220	Wealth and Power	3.0
SOC 335	Sociology of Education	3.0

Electives	45.0 - 49.0 Credits
Free electives	45.0 - 49.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA Anthropology
4 YR UG Co-op Concentration

Recommended Plan Of Study

	Credits
Term 1	
ANTH 101 Introduction to Cultural Diversity	3.0
ENGL 101 Expository Writing and Reading	3.0
UNIV 101 The Drexel Experience	1.0
Foreign language course	4.0
Math elective	3.0-4.0
<i>Term Credits</i>	<i>14.0-15.0</i>
Term 2	
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
Math elective	3.0-4.0
<i>Term Credits</i>	<i>14.0-15.0</i>
Term 3	
ANTH 390 Seminar in Ethnography	3.0
ENGL 103 Analytical Writing and Reading	3.0
SOC 101 Introduction to Sociology	3.0
SOC 260 Classical Social Theory	3.0
SOC 270 Theory of Applied and Community Sociology	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 4	
ANTH 215 Anthropology of Gender	3.0
COM 150 Mass Media and Society	3.0
COM 220 Introduction to Communication	3.0
Humanities/Fine Arts elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 5	
ANTH 370 Ethnographic Methods	3.0
COM 210 Theory and Models of Communication	3.0
SOC 250 Research Methods I	3.0
Humanities/Fine Arts elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 6	
ANTH 310 Societies in Transition	3.0
ANTH 390 Seminar in Ethnography	3.0
LING 101 Introduction to Linguistics	3.0
SOC 364 Computer-Assisted Data Analysis I	3.0
Anthropology program requirement (See degree requirements)	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 7	
ANTH 330 Media Anthropology	3.0
Free electives	12.0
<i>Term Credits</i>	<i>15.0</i>
Term 8	
	Credits

ANTH 390	Seminar in Ethnography	3.0
	Anthropology program requirements (See degree requirements)	6.0
	Free elective	4.0
	<i>Term Credits</i>	<i>13.0</i>
Term 9		Credits
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	6.0
	<i>Term Credits</i>	<i>12.0</i>
Term 10		Credits
ANTH 410	Cultural Theory	3.0
COM 355	Ethnography of Communication	3.0
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	6.0
	<i>Term Credits</i>	<i>18.0</i>
Term 11		Credits
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	12.0
	Social and Behavioral Sciences elective	3.0-4.0
	<i>Term Credits</i>	<i>21.0-22.0</i>
Term 12		Credits
ANTH 390	Seminar in Ethnography	3.0
	Anthropology program requirement (See degree requirements)	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
	Total Credits (minimum)	182.0-185.0

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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

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 370	Ethnographic Methods	3.0
ANTH 410	Cultural Theory	3.0

Three of the following courses 9.0

ANTH 215	Anthropology of Gender	3.0
ANTH 330	Media Anthropology	3.0
ANTH 120	Biblical Archaeology	3.0
ANTH 212	Topics in World Ethnography	3.0
ANTH 220	Aging in Cross-Cultural Perspectives	3.0
ANTH 240	Urban Anthropology	3.0
ANTH 310	Societies in Transition	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
ANTH 355	Anthropology of Cyberspace	3.0
ANTH 360	Culture and the Environment	3.0
ANTH 365	Family and Kinship	3.0
ANTH 380	Special Topics in Anthropology	3.0

Biological Sciences

The biological sciences encompass many areas of study. 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 biological science resides in the Department of Biology. 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 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.

In addition to the core requirements, students select one of five concentrations in a field of interest:

- **Cell/Molecular Biology/Genetics/Biochemistry**
- **Organismal Biology/Physiology**
- **Ecology/Evolutionary Biology/Paleobiology**
- **Pathobiology**
- **General Biology**

Co-op/internship employment is an option for biological science 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: 181.0 credits

Degree requirements (incoming students, 2010/2011)

The Biological Sciences curriculum is designed to provide students with both depth and flexibility within the field of biology. In addition to the core requirements, students select one of five concentrations in a field of interest.

1. **Cell/Molecular Biology/Genetics/Biochemistry**
2. **Organismal Biology/Physiology**
3. **Ecology/Evolutionary Biology/Paleobiology**
4. **Pathobiology**
5. **General Biology**

Concentration requirements and elective options are outlined below. Within each concentration, students are able to further specialize in a focus area by taking recommended electives.

Requirements

Humanities and Social Sciences		33.0 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
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Writing	3.0
PHIL 251	Ethics	3.0
UNIV 101	The Drexel Experience	3.0
Humanities and social sciences electives		9.0
Science, technology, and human affairs elective*		3.0

*Students choose either ANTH 210, BIO 212, CJ 279, CJ 378, HIST 280, HIST 281, HIST 285, HIST 286, HIST 290, HIST 292, ENGL 300, ENGL 302, NFS 446, PHIL 341, PHIL 351, PHIL 361, PSCI 371, SOC 235.

Mathematics and Statistics		18.0 Credits
One of the following math sequences:		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
MATH 239	Mathematics for the Life Sciences	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 410	Scientific Data Analysis I	3.0
MATH 411	Scientific Data Analysis II	3.0

Physical Sciences		42.0 Credits
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
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	Introductory Physics I	4.0
PHYS 153	Introductory Physics II	4.0
PHYS 154	Introductory Physics III	4.0

Core Biology Courses		36.0 Credits
BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 217	Evolution	4.0
BIO 218	Principles of Molecular Biology	4.0
BIO 219 WI	Techniques in Molecular Biology	2.5
BIO 224	Form, Function and Evolution of Vertebrates	4.0
BIO 225	Vertebrate Biology and Evolution Lab	4.0
BIO 471	Seminar in Biological Science	2.0
BIO 472	Seminar in Biological Science	2.0
BIO 473 WI	Seminar in Biological Science	2.0

Free electives	24.0 - 26.0 Credits
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Concentration Courses	28.0 - 30.0 Credits
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Students select one of five concentration and fulfill the requirements, as outlined below.

1. The Cell/Molecular/Genetics/Biochemistry (CMGB) Concentration

This concentration provides exposure to several vital disciplines within Biology, and will prepare students for a diversity of careers in research, medicine, and industry. Students interested in tailoring their studies more specifically may follow the suggested "focus areas" when selecting their two CMGB Concentration electives.

Cell/Molecular/Genetics/Biochemistry (CMGB) Concentration requirements		13.0 Credits
BIO 214	Principles of Cell Biology	3.0
BIO 244	Genetics	3.0
or		
BIO 444	Human Genetics	3.0
BIO 270	Developmental Biology	3.0
BIO 311	Metabolism	4.0

Cell/Molecular/Genetics/Biochemistry (CMGB) Concentration	12.0
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electives	Credits
2 Cell/Molecular/Genetics/Biochemistry (CMGB) electives*	
1 Organismal/Physiology elective**	
1 Evolutionary Bio/Ecology elective***	

Concentration Laboratory courses	4.0 Credits
2 Laboratory electives+	

*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 231, BIO 244, BIO 314, BIO 318, BIO 331, BIO 332, BIO 346, BIO 404, BIO 413, BIO 415, BIO 421, BIO 430, BIO 433, BIO 444, BIO 445, BIO 447, BIO 451, BIO 462, BIO 463, (BIO 498 Independent Study by permission of the department).

**Organismal/Physiology electives: BIO 201, BIO 221, BIO 223, BIO 254, BIO 256, BIO 260, BIO 284, BIO 310, BIO 322, BIO 368, BIO 370, BIO, 386, BIO 412, BIO 420, BIO 426, ENVS 392, ENVS 431.

*** Evolutionary Bio/Ecology electives: ENVS 230, ENVS 270, ENVS 271, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 330, ENVS 336, ENVS 338, ENVS 360, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 441, ENVS 476, ENVS 477, ENVS 520.

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 271, BIO 306, BIO 313, BIO 387, BIO 406, BIO 427, ENVS 285, ENVS 287, ENVS 336, ENVS 365, ENVS 382, ENVS 383, ENVS 388 (BIO 497 Research by permission of the department).

Focus Areas

Students in this concentration interested in *Neurobiology* should take the following 2 courses as electives in this concentration:

BIO 421	Biomembranes	3.0
BIO 462	Biology of Neuron Function	3.0

Students in this concentration interested in *Pharmaceutics* should take the following 2 courses as electives in this concentration:

BIO 314	Pharmacology	3.0
BIO 404	Structure and Function of Biomolecules	4.0

Student sin this concentration interested in *Cell Biology* should take the following course as an elective in this concentration and should choose an additional course from the list of options below:

BIO 433	Advanced Cell Biology	3.0
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Students select 1 of the following *Cell Biology* options:

BIO 318	Biology of Cancer	3.0
BIO 346	Stem Cell Research	3.0
BIO 430	Cell Biology of Disease	3.0
BIO 421	Biomembranes	3.0

Students in this concentration interested in *Molecular Biology* should select the Concentration requirement of BIO 244 Genetics rather than BIO 444 Human Genetics. They should take the following course as an elective in this concentration and should choose an additional course from the list of options below:

BIO 447	Advanced Genetics & Molecular Biology	3.0
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Students select 1 of the following *Molecular Biology* options

BIO 314	Pharmacology	3.0
BIO 318	Biology of Cancer	3.0
BIO 331	Bioinformatics I	4.0
BIO 404	Structure and Function of Biomolecules	4.0
BIO 413	Genomics	3.0
BIO 415	Proteins	3.0

Students in this concentration interested in *Biochemistry* should choose BIO 404 Structure and Function of Biomolecules as one elective and should choose an additional course from the list of options below:

BIO 404	Structure and Function of Biomolecules	4.0
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Students interested in *Biochemistry* select 1 of the following options:

BIO 314	Pharmacology	3.0
BIO 318	Biology of Cancer	3.0
BIO 415	Proteins	3.0
BIO 421	Biomembranes	3.0

2, The Organismal Biology/Physiology Concentration

This concentration combines courses in organismal biology and physiology with an opportunity to focus on human physiology. The concentration is designed to appeal to students interested in health and medicine, but also accommodates students seeking a wider breadth of knowledge in organismal diversity. Students can focus their electives in human physiology or can choose courses that study non-human organisms.

Organismal Biology/Physiology Concentration requirements		14.0 Credits
BIO 214	Principles of Cell Biology	3.0
or		
BIO 311	Metabolism	4.0
BIO 201	Human Physiology I	4.0
or		
BIO 254	Invertebrate Morphology and Physiology	3.0
BIO 203	Human Physiology II	4.0
or		
BIO 256	Vertebrate Morphology and Physiology	5.0

Students select 1 of the following options:

BIO 221	Microbiology	3.0
BIO 223	Parasitology	3.0
BIO 260	Plant Biology I	4.0
BIO 322	Mycology	4.5
BIO 420	Virology	3.0

Organismal Biology/Physiology Concentration Concentration electives	12.0 Credits
1 Cell/Molecular/Genetics/Biochemistry (CMGB) elective*	
2 Organismal/Physiology electives**	
1 Evolutionary Bio/Ecology elective***	

Concentration Laboratory courses	4.0 Credits
2 Laboratory electives+	

*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 214, BIO 244, BIO 270, BIO 311, BIO 314, BIO 318, BIO 346, BIO 404, BIO 413, BIO 430, BIO 444, BIO 449 (BIO 498 Independent Study by permission of the department).

**Organismal/Physiology electives: BIO 201, BIO 203, BIO 221, BIO 223, BIO 262, BIO 264, BIO 284, BIO 310, BIO 320, BIO 322, BIO 368, BIO 370, BIO 386, BIO 412, BIO 420, BIO 424, BIO 426, BIO 435, BIO 466, ENVS 321, ENVS 392, ENVS 431, ENVS 436, ENVS 437.

*** Evolutionary Bio/Ecology electives: ENVS 230, ENVS 270, ENVS 271, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 330, ENVS 336, ENVS 338, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 441, ENVS 476, ENVS 477, ENVS 520.

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 271, BIO 306, BIO 313, BIO 387, BIO 406, BIO 427, BIO 449, ENVS 285, ENVS 287, ENVS 336, ENVS 365, ENVS 382, ENVS 383, ENVS 388 (BIO 497 Research by permission of the department).

Focus Areas

Students in this concentration interested in *Human Physiology* should select BIO 311 Metabolism, BIO 201 Human Physiology I, and BIO 203 Human Physiology II from the above options and choose 2 of the following electives:

Human Physiology options:

BIO 221	Microbiology	3.0
BIO 223	Parasitology	3.0
BIO 264	Ethnobotany	3.0
BIO 284	Biology of Stress	3.0
BIO 320	Microbial Pathogenesis	3.0
BIO 368	Embryology	4.0
BIO 370	Teratology	3.0
BIO 386	Gross Anatomy*	3.0
BIO 412	Biology of Aging	3.0
BIO 420	Virology	3.0
BIO 424	Microbial Physiology	5.0
BIO 426	Immunology*	3.0
BIO 435	Advanced Immunology	3.0
BIO 466	Endocrinology	4.0
ENVS 321	Environmental Health	3.0
ENVS 431	Epidemiology	3.0
ENVS 436	Principles of Toxicology I	3.0
ENVS 437	Principles of Toxicology II	3.0

*Students in this focus area who wish to take BIO 386 Gross Anatomy or BIO 426 Immunology must take BIO 214 principles of Cell Biology as their concentration elective, as it is a prerequisite for these courses.

Students interested in *Organismal Biology* should select BIO 214 Principles of Cell Biology, BIO 254 Invertebrate Morphology and Physiology, BIO 256 Vertebrate Morphology and Physiology, and choose 2 of the following electives:

Organismal Biology options:

BIO 221	Microbiology	3.0
BIO 223	Parasitology	3.0
BIO 260	Plant Biology I	4.0
BIO 262	Plant Biology II	3.0
BIO 284	Biology of Stress	3.0
BIO 310	Comparative Physiology	3.0
BIO 320	Microbial Pathogenesis	3.0
BIO 322	Mycology	4.5
BIO 368	Embryology	4.0
BIO 370	Teratology	3.0
BIO 386	Gross Anatomy	3.0
BIO 412	Biology of Aging	3.0
BIO 420	Virology	3.0
BIO 424	Microbial Physiology	5.0
BIO 426	Immunology	3.0
BIO 435	Advanced Immunology	3.0
BIO 466	Endocrinology	4.0
ENVS 321	Environmental Health	3.0
ENVS 392	Ichthyology and Herpetology	3.0
ENVS 431	Epidemiology	3.0
ENVS 436	Principles of Toxicology I	3.0

3. The Ecology/Evolutionary Biology/Paleobiology Concentration

This concentration focuses on ecological and evolutionary aspects of biology for

biology majors who also have specific interests in ecology, evolution or paleobiology. This concentration is designed to maintain a breadth of knowledge in biology, but also allows students to tailor their course work more specifically to reflect their specific area of interest.

Ecology/Evolutionary Biology/Paleobiology Concentration requirements		13.0 Credits
ENVS 270	History of Life on Earth	3.0

Students choose 3 additional Ecology/Evolutionary Biology/Paleobiology courses from the list of options below:

ENVS 230	General Ecology	3.0
ENVS 272	Physical Geology	4.0
ENVS 284 WI	Physiological and Population Ecology	3.0
ENVS 286 WI	Community and Ecosystem Ecology	3.0
ENVS 326	Molecular Ecology	4.0
ENVS 360	Evo-Devo	4.0
ENVS 375	Invertebrate Paleontology	4.0
ENVS 477	Vertebrate Paleontology	3.0

Ecology/Evolutionary Biology/Paleobiology concentration electives		12.0 Credits
1 Cell/Molecular/Genetics/Biochemistry (CMGB) elective*		
1 Organismal/Physiology elective**		
2 Evolutionary Bio/Ecology electives***		

Concentration Laboratory courses		4.0 Credits
2 Laboratory electives+		

*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 214, BIO 244, BIO 311, BIO 331, BIO 346, BIO 404, BIO 413, BIO 430, BIO 444, BIO 449, ENVS 326 (BIO 498 Independent Study by permission of the department).

**Organismal/Physiology electives: BIO 201, BIO 221, BIO 223, BIO 254, BIO 256, BIO 260, BIO 284, BIO 310, BIO 322, BIO 368, BIO 386, BIO 412, BIO 420, BIO 426, ENVS 392.

*** Evolutionary Bio/Ecology electives: BIO 465, ENVS 230, ENVS 271, ENVS 272, ENVS 284, ENVS 286, ENVS 322, ENVS 330, ENVS 336, ENVS 338, ENVS 360, ENVS 364, ENVS 374, ENVS 375, ENVS 382, ENVS 383, ENVS 390, ENVS 410, ENVS 412, ENVS 413, ENVS 414, ENVS 476, ENVS 477, ENVS 520.

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 306, BIO 313, BIO 387, BIO 406, BIO 427, BIO 449, ENVS 285, ENVS 287, ENVS 327, ENVS 336, ENVS 365, (BIO 497 Research by permission of the department).

Focus Areas

Students interested in *Ecology* should take ENVS 230 General Ecology, ENVS 284 Physiological and Population Ecology and ENVS 286 Community and Ecosystem Ecology from the above options. Students should also select 2 of the following electives:

Ecology options		
ENVS 322	Tropical Ecology	3.0
ENVS 324	Microbial Ecology	3.0
ENVS 330	Aquatic Ecology	3.0
ENVS 336	Terrestrial Ecology	5.0
ENVS 338	Biodiversity and Conservation	3.0
ENVS 364	Animal Behavior	3.0
ENVS 390	Marine Ecology	3.0
ENVS 410	Physiological Ecology	3.0

ENVS 412	Biophysical Ecology	3.0
ENVS 413	Advanced Population Ecology	3.0
ENVS 414	Advanced Community Ecology	3.0
ENVS 520	Field Methods in Paleoecology	3.0

Students interested in *Evolutionary Biology* should take ENVS 230 General Ecology, ENVS 326 Molecular Ecology and ENVS 369 Evo-Devo from the above options. Students should also select 2 of the following electives:

Evolutionary Biology options

ENVS 271	Dinosaurs and Their World	3.0
ENVS 272	Physical Geology	4.0
ENVS 338	Biodiversity and Conservation	3.0
ENVS 375	Invertebrate Paleontology	4.0
ENVS 476	Paleobotany	3.0
ENVS 477	Vertebrate Paleontology	3.0
ENVS 465	Advanced Evolution	5.0

Students interested in *Paleobiology* should take ENVS 272 Physical Geology, ENVS 375 Invertebrate Paleontology and ENVS 477 Vertebrate Paleontology from the above options. Students should also select 2 of the following electives:

Paleobiology options

ENVS 230	General Ecology	3.0
ENVS 271	Dinosaurs and Their World	3.0
ENVS 336	Terrestrial Ecology	5.0
ENVS 360	Evo-Devo	4.0
ENVS 374	Sedimentary Environments	3.0
ENVS 390	Marine Ecology	3.0
ENVS 364	Animal Behavior	3.0
ENVS 390	Marine Ecology	3.0
ENVS 476	Paleobotany	3.0
ENVS 520	Field Methods in Paleoecology	3.0
ENVS 465	Advanced Evolution	5.0

4. The Pathobiology Concentration

The Pathobiology concentration focuses on pathogenesis, and provides a unique option for students that differs from the more traditional disciplines in cell/molecular/genetics/biochemistry. This concentration is designed to appeal to students with an interest in pursuing careers in areas of public and allied health.

Pathobiology Concentration requirements **12.0 Credits**

BIO 214	Principles of Cell Biology	3.0
BIO 221	Microbiology	3.0
BIO 320	Microbial Pathogenesis	3.0
BIO 426	Immunology	3.0

Ecology/Evolutionary Biology/Paleobiology concentration electives **12.0 Credits**

1 Cell/Molecular/Genetics/Biochemistry (CMGB) elective*	
2 Organismal/Physiology electives**	
1 Evolutionary Bio/Ecology elective***	

Concentration Laboratory courses **4.0 Credits**

2 Laboratory electives+	
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*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 214, BIO 311, BIO 314, BIO 346, BIO 404, BIO 430, BIO 444, BIO 449 (BIO 498 Independent Study by permission

of the department).

****Organismal/Physiology electives:** BIO 201, BIO 221, BIO 223, BIO 284, BIO 322, BIO 368, BIO 370, BIO 386, BIO 412, BIO 420, BIO 424, BIO 435, BIO 466, ENVS 321, ENVS 431, ENVS 436, ENVS 437.

***** Evolutionary Bio/Ecology electives:** ENVS 230, ENVS 270, ENVS 271, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 330, ENVS 336, ENVS 338, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 441, ENVS 476, ENVS 477, ENVS 520.

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 306, BIO 387, BIO 406, BIO 427, BIO 449, ENVS 285, ENVS 287, ENVS 336, ENVS 365, ENVS 382, ENVS 383, ENVS 288 (BIO 497 Research by permission of the department).

5. The General Biology Concentration

This concentration will allow maximum flexibility for students who want to develop their own unique plan of study. The concentration is designed for students who may not have one specific area of interest, but who are looking to be well-rounded in the biological sciences. Students pursuing careers in education, where a wider breadth of knowledge in biology is desirable, may choose to select this concentration.

General Biology Concentration Electives	24.0 Credits
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2 or 3 Cell/Molecular/Genetics/Biochemistry (CMGB) electives*

2 or 3 Organismal/Physiology electives**

2 or 3 Evolutionary Bio/Ecology electives***

Concentration Laboratory courses	4.0 Credits
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2 Laboratory electives+

***Cell/Molecular/Genetics/Biochemistry (CMGB) electives:** BIO 214, BIO 231, BIO 244, BIO 270, BIO 311, BIO 314, BIO 318, BIO 346, BIO 404, BIO 413, BIO 415, BIO 421, BIO 430, BIO 444, BIO 445, BIO 447, BIO 449, BIO 451, BIO 462, ENVS 326 (BIO 498 Independent Study by permission of the department).

****Organismal/Physiology electives:** BIO 201, BIO 203, BIO 221, BIO 223, BIO 254, BIO 256, BIO 260, BIO 262, BIO 284, BIO 310, BIO 320, BIO 322, BIO 368, BIO 370, BIO, 386, BIO 412, BIO 420, BIO 424, BIO 426, BIO 435, BIO 466, ENVS 321, ENVS 392, ENVS 431, ENVS 436, ENVS 437.

***** Evolutionary Bio/Ecology electives:** ENVS 230, ENVS 270, ENVS 271, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 324, ENVS 330, ENVS 336, ENVS 338, ENVS 360, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 410, ENVS 412, ENVS 413, ENVS 414, ENVS 441, ENVS 442, ENVS 476, ENVS 477, ENVS 520.

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 271, BIO 306, BIO 313, BIO 333, BIO 387, BIO 406, BIO 427, BIO 449, ENVS 285, ENVS 287, ENVS 327, ENVS 365, ENVS 382, ENVS 383, ENVS 388 (BIO 497 Research by permission of the department).

Noe about laboratory credits: BIO 256, BIO 449, ENVS 336, ENVS 382 and ENVS 388 have both a lecture and laboratory component. Three credits of this course apply to lecture; 2 credits apply to the lab requirements.

Writing-Intensive Course Requirements

In order to graduate, all students 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.

Recommended Plan Of Study
BS Biological Sciences, General Biology Concentration
4 YR UG Co-op Concentration

Term 1		Credits
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 121	Calculus I	4.0
or		
MATH 101	Introduction to Analysis I	4.0
	<i>Term Credits</i>	16.0
Term 2		Credits
BIO 124	Evolution and Organismal Diversity	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	2.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Analysis II	4.0
	<i>Term Credits</i>	18.0
Term 3		Credits
BIO 126	Physiology and Ecology	4.5
CHEM 103	General Chemistry III	5.0
COOP 101	Career Management/Professional Development	0.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 239	Mathematics for the Life Sciences	4.0
or		
MATH 123	Calculus III	4.0
	<i>Term Credits</i>	16.5
Term 4		Credits
BIO 217	Evolution	4.0
BIO 219	Techniques in Molecular Biology	2.5
CHEM 241	Organic Chemistry I	4.0
PHYS 152	Introductory Physics I	4.0
	<i>Term Credits</i>	14.5
Term 5		Credits
BIO 218	Principles of Molecular Biology	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Laboratory I	3.0
PHYS 153	Introductory Physics II	4.0
	<i>Term Credits</i>	15.0
Term 6		Credits
BIO 224	Form, Function & Evolution of Vertebrates	4.0
BIO 225	Vertebrate Bio & Evolution Lab	2.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chem Lab II	3.0
PHYS 154	Introductory Physics III	4.0
	<i>Term Credits</i>	16.0
Term 7		Credits
PHIL 251	Ethics	3.0
	Biology laboratory requirement course (See degree	

	requirements)	2.0
	BIO/ENVS elective	3.0
	Free elective	3.0
	Science, Technology and Human Affairs elective (See degrees requirements list)	3.0
	Term Credits	14.0
Term 8		Credits
COM 230	Techniques of Speaking	3.0
MATH 410	Scientific Data Analysis I	3.0
	Biology laboratory requirement course (See degree requirements)	2.0
	BIO/ENVS elective	3.0
	Free elective	3.0
	Term Credits	14.0
Term 9		Credits
COM 310	Technical Communication	3.0
MATH 411	Scientific Data Analysis II	3.0
	BIO/ENVS elective	3.0
	Free elective	3.0
	Humanities/Social Science elective	3.0
	Term Credits	15.0
Term 10		Credits
BIO 471	Seminar in Biological Sciences	2.0
	BIO/ENVS electives	6.0
	Free electives	6.0
	Term Credits	14.0
Term 11		Credits
BIO 472	Seminar in Biological Science	2.0
	BIO/ENVS electives	6.0
	Free elective	3.0
	Humanities/Social Science elective	3.0
	Term Credits	14.0
Term 12		Credits
BIO 473	Seminar in Biological Science	2.0
	BIO/ENVS elective	3.0
	Free electives	6.0
	Humanities/Social Science elective	3.0
	Term Credits	14.0
	Total Credits (minimum)	181.0

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Minor in Biological Sciences

25.5 credits

The minor in 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.

Required courses

BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 217	Evolution	4.0
BIO 218	Principles of Molecular Biology	4.0
BIO 224	Vertebrates	4.0

*Note: The department also offers a minor in **Bioinformatics** specifically designed for students majoring in biomedical engineering, biological science, computer science, information systems, or mathematics.

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

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 Biology 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 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
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
MATH 410	Scientific Data Analysis I	3.0
MATH 411	Scientific Data Analysis II	3.0

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Minor in Bioscience and Society

24.0 credits

Designed for non-majors, the Minor in Bioscience and Society is accessible to all students with an interest in biology. The minor includes a list of topical courses from which students can choose freely depending upon interest.

Required courses

BIO 100	Applied Cells, Genetics and Physiology	3.0
or		
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
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BIO 101	Applied Biological Diversity, Ecology and Evolution	3.0
or		
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
<hr/>		
BIO 217	Evolution	4.0

Students select 12.0-14.0 additional credits from the following courses:

BIO 118	Basics of Cancer	3.0
BIO 212	Biotechnology	3.0
BIO 264	Ethnobotany	3.0
BIO 284	Biology of Stress	3.0
BIO 312	Genetically Modified Foods	2.0
ENVS 260	Environmental Science and Society I	3.0
ENVS 270	History of Life on Earth	3.0
ENVS 441 WI	Issues in Global Change I: Seminar	2.0
ENVS 442	Issues in Global Change II: Research	2.0

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Chemistry

Drexel's Department of Chemistry offers a BS degree certified by the American Chemical Society Committee on Professional Training and a BA degree for those interested in following their undergraduate educations in chemistry with professional school, such as law or medicine.

Each student plans a course of study and selects electives in consultation with an advisor in the Chemistry Department. 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.

Both a five year co-op degree and a four-year non-co-op degree are offered for the BS. The BA is a 4-year non-co-op degree.

Facilities

There are seven undergraduate teaching laboratories in the department: three freshman Chemistry labs, an advanced Organic Chemistry lab, a Physical Chemistry lab, an Analytical Instrumentation Laboratory and a combined Analytical/Inorganic Chemistry lab.

Mass Spectrometry Laboratory

A Waters Autospec M high resolution mass spectrometer, a Sciex API triple quadrupole mass spectrometer, and a Bruker Autoflex III MALDI Time-of-Flight mass spectrometer.

Magnetic Resonance Laboratory

Varian INNOVA 300 MHz superconducting FT-NMR spectrometer, Varian INNOVA 500 MHz superconducting FT-NMR spectrometer, and a Varian X-band 12" EPR spectrometer.

Analytical Instrumentation Laboratory

The open-access departmental Analytical Instrumentation Laboratory includes two Perkin-Elmer (PE) Spectrum One Fourier-transform infrared absorption spectrometers each with a universal diamond ATR accessory, a PE Lambda-35 UV/visible spectrometer, a PE Lambda-950 UV/visible/NIR spectrometer with a 60-mm-diameter diffuse reflectance integrating sphere, a PE model 343 polarimeter, a PE LS55B luminescence spectrometer, a PE Clarus 500 capillary-column GC with dual FID detectors, a Clarus 500 capillary-column GC/MS system (with electron impact capability), a PE Series 200 Quaternary HPLC development system with UV/visible photodiode array detector, a PE Series 200 binary HPLC system interfaced to a Sciex 2000 triple quadrupole MS detector, a PE Series 2000 binary gel permeation chromatography system with refractive index detector, and a Varian AA240FS flame atomic absorption spectrometer equipped with a GTA 120 graphite furnace accessory.

Other Departmental Facilities

The department has a VEECO INNOVA N3 Multimode scanning probe microscope and also maintains a computational chemistry laboratory equipped with nine Dell Optiplex 620 computers running Hyperchem v 8.0. Research laboratories for each of the department faculty members are located in Disque and Stratton Halls. Instrumentation available in the research laboratories is described on individual faculty web pages.

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Chemistry

Accelerated Bachelors/Masters Dual Degree Program in Chemistry

The Bachelor's/Master's (BS/MS) dual degree program is an accelerated program providing the academically qualified student with an opportunity to earn both a BS and an MS degree (two diplomas are awarded) in five years, the time normally required to finish the co-op option BS degree alone. Because both degrees are completed in the time it takes to obtain a BS degree, both degrees may be completed at the undergraduate tuition rate.

This is an academically demanding program, but there are several allowances built in to enable the program to be completed in the time allotted. For instance, only 180 rather than 192 undergraduate quarter credits are required. The co-op experience may be adjusted; the student may take two rather than three coop cycles, enabling two additional quarters of on-campus study. If needed, the student may also take evening courses while on co-op.

Eligibility

Exceptional students with a cumulative grade point average of at least 3.0 and who are enrolled in the five-year co-op option program are eligible for the BS/MS program. Students formally apply to the program after they have completed 90 credits but before they have completed 120 credits. Students are strongly encouraged to begin planning for the program as early as their freshman year. Students who have more than 120 credits are not eligible.

Transfer students are eligible to join the BS/MS program, but they must be able to complete the program in the time it would take to complete the BS degree alone. International transfer students must be able to meet the required minimum TOEFL score for the department graduate program (currently 550) in order to be admitted to the BS/MS program.

Application Process

You need to formally apply to the program. Applications are available in the Office of Graduate Admissions or in the College of Arts & Sciences advisor's office. Your application must be accompanied by a Plan of Study prepared in consultation with the undergraduate and graduate advisor in the department and approved by both the Department Head and the Dean. Entry into the program must be officially approved by both the Department Head and Academic Dean.

Requirements

Students enrolled in the BS/MS dual degree program must complete 180 undergraduate quarter credits for the BS degree and at least 45 graduate quarter credits for the MS degree. All graduate departmental requirements must be satisfied in full, including producing a thesis, if the thesis-option Masters program is elected. Masters thesis requirements may be completed in the summer term of the final year with prior approval of the department. Students in the BS/MS program must maintain a cumulative GPA of 3.0 in their undergraduate and graduate coursework to remain in the program.

Further questions about the BS/MS degree program should be directed to the departmental graduate advisor.

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Chemistry

Bachelor of Arts Degree: 184.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements*		44.0 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	3.0
	Humanities and arts electives	6.0
	International studies electives	6.0
	Social and behavioral studies electives	6.0
	Studies in diversity electives	6.0
	Language requirements courses	8.0

Chemistry requirements		50.5 Credits
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
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 253	Thermodynamics & Kinetics	4.0
CHEM 270	Software Skills for Chemists	3.0
CHEM 357 WI	Physical Chemistry I Laboratory	2.5
CHEM 367	Chemical Information Retrieval	3.0
CHEM 421	Inorganic Chemistry I	3.0

Chemistry electives		6.0 Credits
	Chemistry electives**	6.0

**Courses with CHEM prefix, although ENVS chemistry courses can also fulfill this requirement.

Biology requirements		13.5 Credits
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BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5

Mathematics requirements **16.0 Credits**

MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Multivariate Calculus I	4.0

Physics requirements **12.0 Credits**

PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 201	Fundamentals of Physics III	4.0

Free electives **41.0 - 53.0 Credits**

Free electives	41.0 - 53.0
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*** Categories of Electives:**

Humanities and arts electives

Designated courses in art, art history, communication studies, foreign languages (300-level or above), history, literature, music, philosophy, religion, and theatre arts.

International electives

Designated courses in anthropology, art history, history, literature, music, politics and sociology. Courses with an international focus may be used to fulfill requirements in other categories as well.

Social and behavioral studies electives

Designated courses in anthropology, criminal justice, economics, international relations, history, politics, psychology and sociology.

Studies in diversity electives

Africana studies, women's studies or designated cross-listed courses in anthropology, art, art history, history, literature, music, philosophy, politics and sociology.

Language requirement

Students may satisfy the language course requirements in two ways: (1) taking two terms of sequential study of a foreign language (or placement at the exit level of 103 or above); or (2) taking two terms of a computer language or placement out as determined by the Department of Computer Science.

Recommended Plan Of Study

BA Chemistry

4 YR UG No Co-op Concentration

Term 1		Credits
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	16.0
Term 2		Credits
BIO 124	Evolution & Organismal Diversity	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	2.0
	<i>Term Credits</i>	18.0
Term 3		Credits
BIO 126	Physiology and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
	<i>Term Credits</i>	16.5
Term 4		Credits
CHEM 230	Quantitative Analysis	3.0
CHEM 231	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry I	4.0
MATH 200	Multivariate Calculus	4.0
	Free elective	3.0
	<i>Term Credits</i>	16.0
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Laboratory I	3.0
PHYS 101	Fundamentals of Physics I	4.0
	Chemistry elective	3.0
	<i>Term Credits</i>	14.0
Term 6		Credits
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chem Lab II	3.0
PHYS 102	Fundamentals of Physics II	4.0
	Free elective	3.0
	Humanities elective	3.0
	<i>Term Credits</i>	16.0
Term 7		Credits
CHEM 253	Thermodynamics & Kinetics	4.0
CHEM 367	Chemical Information Retrieval	3.0
CHEM 421	Inorganic Chemistry I	3.0
PHYS 201	Fundamentals of Physics III	4.0
	<i>Term Credits</i>	14.0
Term 8		Credits
CHEM 270		

	Software Skills for Chemists	3.0
CHEM 357	Physical Chemistry Lab I	2.5
	Diversity studies elective	3.0
	International studies elective	3.0
	Language course	4.0
	<i>Term Credits</i>	15.5
Term 9		Credits
	Diversity studies elective	3.0
	Humanities elective	3.0
	International studies elective	3.0
	Language course	4.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	16.0
Term 10		Credits
	Free electives	12.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	15.0
Term 11		Credits
	Chemistry elective	3.0
	Free electives	12.0
	<i>Term Credits</i>	15.0
Term 12		Credits
	Free electives	12.0
	<i>Term Credits</i>	12.0
	Total Credits (minimum)	184.0

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Chemistry

Bachelor of Science Degree: 190.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements		24.0 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	3.0
	Technical electives*	6.0
	Liberal studies electives*	6.0

*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.

Chemistry requirements		90.5 Credits
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
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 253	Thermodynamics & Kinetics	4.0
CHEM 270	Software Skills for Chemists	3.0
CHEM 346	Qualitative Organic Chemistry	5.5
CHEM 355	Physical Chemistry IV	3.0
CHEM 357 WI	Physical Chemistry Lab I	2.5
CHEM 358	Physical Chemistry Lab II	2.5
CHEM 359	Atomic/Molecular Spectroscopy	3.0
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 425	Inorganic Chemistry Laboratory	4.0
CHEM 430	Analytical Chemistry I	3.0
CHEM 431 WI	Analytical Chemistry II	4.0
CHEM 493	Senior Research Project	9.0

Biology requirements		7.5
		Credits
BIO 122	Cells and Genetics	4.5
BIO 214	Principles of Cell Biology	3.0

Biochemistry requirements		6.0
		Credits
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
or		
BIO 311	Metabolism	4.0

Biochemistry laboratory options:		
BIO 306	Biochemistry Laboratory	2.0
or		
BIO 406	Computational Biochemistry Laboratory	2.0

Computer/mathematics requirements		20.0
		Credits
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
or		
MATH 210	Differential Equations	4.0

Physics requirements		12.0
		Credits
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 201	Fundamentals of Physics III	4.0

Free electives		30.0
		Credits
Free electives		30.0

BS Chemistry, 5-Year Co-Op
5 YR UG Co-op Concentration

Recommended Plan Of Study

Term 1		Credits
BIO 122	Cells and Genetics	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	16.0
Term 2		Credits
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 101	Fundamentals of Physics I	4.0
UNIV 101	The Drexel Experience	2.0
	<i>Term Credits</i>	17.5
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 102	Fundamentals of Physics II	4.0
	<i>Term Credits</i>	16.0
Term 4		Credits
CHEM 230	Quantitative Analysis	3.0
CHEM 231	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry I	4.0
MATH 200	Multivariate Calculus	4.0
PHYS 201	Fundamentals of Physics III	4.0
	<i>Term Credits</i>	17.0
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Laboratory I	3.0
MATH 210	Differential Equations	4.0
or		
MATH 201	Linear Algebra	4.0
	Free electives	6.0
	<i>Term Credits</i>	17.0
Term 6		Credits
BIO 214	Principles of Cell Biology	3.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chem Lab II	3.0
CHEM 253	Thermodynamics & Kinetics	4.0
	Free elective	3.0
	<i>Term Credits</i>	16.0
Term 7		Credits
CHEM 270	Software Skills for Chemists	3.0
CHEM 357	Physical Chemistry Lab I	2.5
	Free electives	6.0
	Technical elective (200+ level, see degree requirements)	3.0
	<i>Term Credits</i>	14.5

Term 8		Credits
CHEM 355	Physical Chemistry IV	3.0
CHEM 367	Chemical Information Retrieval	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 430	Analytical Chemistry I	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
CHEM 358	Physical Chemistry Lab II	2.5
CHEM 359	Atomic/Molecular Spectroscopy	3.0
CHEM 420	Molecular Symmetry and Group Theory-Chemistry	3.0
CHEM 431	Analytical Chemistry II	4.0
	Technical elective (200+ level, see degree requirements)	3.0
	<i>Term Credits</i>	<i>15.5</i>
Term 10		Credits
CHEM 346	Qualitative Organic Chemistry	5.5
CHEM 493	Senior Research Project	3.0
BIO 404	Structure and Function of Biomolecules	4.0
or		
BIO 311	Metabolism	4.0
	Liberal studies elective	3.0
	<i>Term Credits</i>	<i>15.5</i>
Term 11		Credits
CHEM 493	Senior Research Project	3.0
BIO 406	Computational Biochemistry Lab	2.0
or		
BIO 306	Biochemistry Laboratory	2.0
	Free electives	6.0
	Liberal studies elective	3.0
	<i>Term Credits</i>	<i>14.0</i>
Term 12		Credits
CHEM 422	Inorganic Chemistry II	3.0
CHEM 425	Inorganic Chemistry Lab	4.0
CHEM 493	Senior Research Project	3.0
	Free electives	6.0
	<i>Term Credits</i>	<i>16.0</i>
	Total Credits (minimum)	190.0

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

CHEM 241	Organic Chemistry I	4.0
CHEM 230	Quantitative Analysis	3.0
CHEM 253	Thermodynamics & Kinetics*	4.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 244	Organic Chemistry I Laboratory	3.0
	Chemistry electives**	10.5

*Students may substitute CHEC352 Physical Chemistry II (4 credits) or CHEC353 Physical Chemistry III (4 credits) for the CHEM 253 requirement.

**The 10.5 credits of chemistry electives must include at least one additional laboratory course. These electives are selected from any of the regularly offered chemistry department lecture or laboratory courses 200-level and above according to your 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.

Drexel University

Catalog 2010-11

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, Criminal Justice and Environmental Studies.

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.

Drexel University

Catalog 2010-11

Communication: Corporate and Public Relations Concentration

Bachelor of Arts Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

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.

General requirements

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/ Fine Arts courses	9.0
	Two Social/Behavioral Sciences courses	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

**36.0
Credits**

Theory Sequence

COM 101	Human Communication	3.0
COM 210	Theory and Models of Communication	3.0
COM 400	Seminar in Communication	3.0

SOC 260 WI	Classical Social Theory	3.0
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Methods Sequence

COM 220	Qualitative Research Methods	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 380	Special Studies in Communications Theory	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 **26.0 Credits**

COM 260 WI	Fundamentals of Journalism	3.0
COM 280	Public Relations	3.0
COM 281	Advanced Public Relations	3.0
COM 282 WI	Public Relations Writing	3.0

Other program requirements

MKTG 301	Introduction to Marketing Management	4.0
ORGB 300 WI	Organizational Behavior	4.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	

One of the following Visual Communication courses*: **3.0**

COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

* Or other courses as appropriate in COM or the College of Media Arts and Design.

Additional Electives

Communication electives (Any four courses with a COM or LING rubric at the 200-level or higher)	12.0
Culture electives (Any two courses with a SOC, ANTH or CJ rubric. At least one course must be at the 200-level or higher.)	6.0
Free electives	32.0 Credits or less

Writing-Intensive Course Requirements

In order to graduate, all students 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.

Recommended Plan Of Study

BA Communication

5 YR UG Co-op Concentration /Corporate & Public Relations

Term 1		Credits
COM 101	Human 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>	<i>14.0</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 course	3.0-4.0
	<i>Term Credits</i>	<i>14.0-15.0</i>
Term 3		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
COM 280	Public Relations	3.0
ENGL 103	Analytical Writing and Reading	3.0
	International studies elective	3.0
	Mathematics course	3.0-4.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
	Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	Science elective (See degree requirements)	3.0-4.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 5		Credits
COM 220	Introduction to Communication Research	3.0
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies In Communication	3.0
COM 260	Fundamentals of Journalism	3.0
	Science elective (See degree requirements)	3.0-4.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>18.0-19.0</i>
Term 6		Credits
COM 281	Advanced Public Relations	3.0
SOC 260	Classical Social Theory	3.0
	Diversity studies elective	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 7		Credits
COM 282	Public Relations Writing	3.0
SOC 250	Research Methods I	3.0
	Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0

	Diversity studies elective	3.0
	International studies elective	3.0
	Term Credits	15.0
Term 8		Credits
ORGB 300	Organizational Behavior	4.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
LING 102	Language and Society	3.0
or		
LING 101	Introduction to Linguistics	3.0
	Visual communications elective (See degree requirements for list)	3.0
	Term Credits	16.0
Term 9		Credits
MKTG 301	Introduction to Marketing Management	4.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	6.0
	Humanities/Fine Arts elective	3.0
	Term Credits	16.0
Term 10		Credits
COM 380	Special Topics in Communication Theory	3.0
COM 400	Seminar in Communication	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	6.0
	Term Credits	15.0
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	9.0
	Term Credits	15.0
Term 12		Credits
COM 492	Senior Project in Communication II	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	8.0
	Term Credits	14.0
	Total Credits (minimum)	182.0-186.0

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Drexel University

Catalog 2010-11

Communication: Global Journalism Concentration

Bachelor of Arts Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

About the Concentration

Global journalism provides students with the skills and theoretical perspective they need to practice journalism on an international stage. Journalism is an international business, and the range of potential jobs for graduates grows almost daily. An extension of the program's core curriculum, the concentration hones the student's ability to write and edit while at the same time exposing the student to new and evolving aspects of the field.

General requirements

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	12.0
	Two Social and Behavioral Sciences electives	9.0
	One International Studies elective	6.0
	One Studies in Diversity elective	6.0

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

Communication core requirements **36.0 Credits**

Theory Sequence

COM 101	Human Communication	3.0
COM 210	Theory and Models of Communication	3.0
COM 400	Seminar in Communication	3.0
SOC 260 WI	Classical Social Theory	3.0

Methods Sequence

COM 220	Qualitative Research Methods	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		27.0 Credits
COM 260 WI	Fundamentals of Journalism	3.0
COM 280	Public Relations	3.0
COM 300 WI	On-Line 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
TVPR 220	TV News Writing	3.0

Other program requirements

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

Select one course from the following list:

PSCI 150	International Politics	4.0
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

Additional Electives

	Communication electives (Any four courses with a COM rubric at the 200-level or higher)	12.0
	Culture electives (Any two courses with a SOC, ANTH or CJ rubric. At least one course must be at the 200-level or higher.)	6.0
	Free electives	min. 21.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA Communication

5 YR UG Co-op Concentration /Global Journalism

Recommended Plan Of Study

Term 1		Credits
COM 101	Human 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	2.0
	Foreign language course	4.0
	Math elective	3.0-4.0
	<i>Term Credits</i>	15.0-16.0
Term 3		Credits
COM 260	Fundamentals of Journalism	3.0
ENGL 103	Analytical Writing and Reading	3.0
ANTH 110	The Human Past	3.0
or		
ANTH 101	Introduction to Cultural Diversity	3.0
	Foreign language course	4.0
	Math elective	3.0-4.0
	<i>Term Credits</i>	16.0-17.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
LING 102	Language and Society	3.0
or		
LING 101	Introduction to Linguistics	3.0
	Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0
	Foreign language course	4.0
	Humanities/Fine Arts elective	3.0
	<i>Term Credits</i>	16.0
Term 5		Credits
COM 220	Qualitative Research Methods	3.0
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies In Communication	3.0
SOC 260	Classical Social Theory	3.0
	Science elective (See degree requirements)	3.0-4.0
	<i>Term Credits</i>	15.0-16.0
Term 6		Credits
SOC 250	Research Methods I	3.0
TVPR 220	TV News Writing	3.0
COM 345	Intercultural Communication	3.0
or		
ANTH 312	Approaches to Intercultural Behavior	3.0
	Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	15.0

Term 7		Credits
COM 280	Public Relations	3.0
COM 300	On-line Journalism	3.0
	Diversity studies elective	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	15.0
Term 8		Credits
SOC 364	Computer-Assisted Data Analysis	3.0
BLAW 340	International Business Law	4.0
or		
COM 361	International Public Relations	3.0
or		
SOC 340	Globalization	3.0
or		
PSCL 150	International Politics	4.0
or		
IAS 359	Culture and Values	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free elective	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	16.0
Term 9		Credits
COM 315	Advanced Journalism	3.0
COM 360	International Communication	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	<i>Term Credits</i>	15.0
Term 10		Credits
COM 365	Journalists, the Courts, and the Law	3.0
COM 380	Special Topics in Communication Theory	3.0
COM 390	Global Journalism	3.0
	Free electives	6.0
	<i>Term Credits</i>	15.0
Term 11		Credits
COM 400	Seminar in Communication	3.0
COM 491	Senior Project in Communication I	3.0
PHIL 305	Communication Ethics	3.0
	Free electives	6.0
	<i>Term Credits</i>	15.0
Term 12		Credits
COM 492	Senior Project in Communication II	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	9.0
	<i>Term Credits</i>	15.0
	Total Credits (minimum)	182.0-185.0

Drexel University

Catalog 2010-11

Communication: Technical and Science Communication Concentration

Bachelor of Science Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

About the 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.

General requirements		65.0 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
	English elective	3.0
	Fine Arts elective	3.0
	Philosophy elective	3.0
One of the following Science sequences:		
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
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
MATH 122	Calculus II	4.0

Communication core requirements **36.0
Credits**

Theory Sequence

COM 101	Human Communication	3.0
COM 210	Theory and Models of Communication	3.0
COM 400	Seminar in Communication	3.0
SOC 260 WI	Classical Social Theory	3.0

Methods Sequence

COM 220	Qualitative Research Methods	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 **30.0
Credits**

COM 310 WI	Technical Communication	3.0
COM 320 WI	Science Writing	3.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0
COM 350 WI	Message Design and Evaluation	3.0
COM 380	Special Studies in Communication Theory	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	
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	
ENGL 300 WI	Literature and Science	3.0
or		
ENGL 302	Literature and the Environment	
or		

PHIL 361	Philosophy of Science	
PSY 330	Cognitive Psychology	3.0
or		
PSY 337	The Psychology of Human-Computer Interaction	3.0

Additional Electives

	Communication electives (Any four courses with a COM rubric at the 200-level or higher)	12.0
	Culture electives (Any two courses with a SOC, ANTH, or CJ rubric. At least one course must be at the 200-level or higher.)	6.0
	Free electives	30.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

Recommended Plan Of Study

BS Communication

5 YR UG Co-op Concentration /Tech & Science Communication

Term 1	Credits
COM 101 Human 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 121 Calculus I	4.0
or	
MATH 101 Introduction to Math Analysis 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
PSY 101 General Psychology I	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
CS 161 Introduction to Computing	3.0
ENGL 103 Analytical Writing and Reading	3.0
PSCI 100 Introduction to Political Science	4.0
ANTH 110 Human Past: Anthropology and Prehistoric Archeology	3.0
or	
ANTH 101 Introduction to Cultural Diversity	3.0
Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0
<i>Term Credits</i>	16.0
Term 4	Credits
COM 220 Introduction to Communication Research	3.0
BIO 102 Biology I: Cells and Tissues	4.0
or	
PHYS 103 General Physics I	4.0
or	
CHEM 111 General Chemistry I	4.0
Communication elective (Any COM or LING course at 200-level or higher)	3.0
History elective	3.0
Philosophy (PHIL) elective	3.0
<i>Term Credits</i>	16.0
Term 5	Credits
COM 230 Techniques of Speaking	3.0
COM 240 New Technologies In Communication	3.0
SOC 260 Classical Social Theory	3.0
ENGL 300 Literature & Science	3.0
or	
ENGL 302 Environmental Literature	3.0
or	
PHIL 361 Philosophy of Science	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
	<i>Term Credits</i>	16.0
Term 6		Credits
COM 335	Electronic Publishing	3.0
	Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher)	3.0
	Economics (ECON) elective	4.0
	Fine arts elective	3.0
	Literature (ENGL) elective	3.0
	<i>Term Credits</i>	16.0
Term 7		Credits
COM 320	Science Writing	3.0
COM 340	Desktop Publishing	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	6.0
	<i>Term Credits</i>	15.0
Term 8		Credits
COM 210	Theory and Models of Communication	3.0
COM 310	Technical Communication	3.0
SOC 250	Research Methods I	3.0
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
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
	<i>Term Credits</i>	15.0
Term 9		Credits
COM 350	Message Design and Evaluation	3.0
COM 420	Technical Editing	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	Free elective	3.0
	History (HIST) elective	3.0
	<i>Term Credits</i>	15.0
Term 10		Credits
COM 380	Special Topics in Communication Theory	3.0
PSY 337	The Psychology of Human-Computer Interaction	3.0
or		
PSY 330	Cognitive Psychology	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	6.0
	<i>Term Credits</i>	15.0
Term 11		Credits
COM 400	Seminar in Communication	3.0
COM 491	Senior Project in Communication I	3.0
PHIL 305	Communication Ethics	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free elective	3.0
	<i>Term Credits</i>	15.0
Term 12		Credits
COM 492	Senior Project in Communication II	3.0
	Free electives	12.0
	<i>Term Credits</i>	15.0

Total Credits (minimum)

182.0

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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, Technical and Science Communication or Environmental Communication.

First, three core courses in Communication Studies are required for the minor. Second, students focus on one of the following areas: (1) Journalism; (2) Corporate and Public Relations; (3) Technical and Science Communication; or (4) Environmental Communication. Finally, students complete three additional electives from the Communication curriculum that fit their interest.

Core courses

COM 210	Theories of Communication	3.0
COM 380	Special Topics in Communication	3.0

And one of the following courses:

COM 101	Human Communication	3.0
COM 111	Principles of Communication	

Journalism focus

COM 260 WI	Fundamentals of Journalism	3.0
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And one of the following courses:

COM 300 WI	On-Line Journalism	3.0
COM 315	Advanced Journalism	
COM 390 WI	Global Journalism	

Corporate and Public Relations focus

COM 280	Public Relations	3.0
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And one of the following courses:

COM 270 WI	Business Communication	3.0
COM 281	Advanced Public Relations	

Technical and Science Communication focus

COM 310 WI	Technical Communication	3.0
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And one of the following courses:

COM 320 WI	Science Writing	3.0
COM 375 WI	Grant Writing	

Environmental Communication focus

COM 317 WI	Environmental Communication	3.0
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And one of the following courses:

COM 316	Campaigns for Health and the Environment	3.0
COM 318	Film, Celebrity and the Environmental Movement	

Three Additional Courses

**Three Communication (COM) or Linguistics (LING)
electives**

9.0

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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

On completion of the Bachelor's degree, the required course provide the essential foundation for mid-level employment in the field of criminal justice or for further study in various areas of criminal justice and the law. 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 excellent, cutting edge preparation for students planning to enter graduate study of criminal justice, law and law-related programs.
- To prepare students for upper level employment in the criminal justice system at local, state and federal levels.
- To communicate an understanding of crime, criminal behavior and the criminal justice system essential for aware citizens, as voters, taxpayers, planners and decision-makers.

For additional information about the BS in Criminal Justice, visit the Culture and Communication Department's Criminal Justice page.

Drexel University

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Criminal Justice

Bachelor of Science Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

General requirements		55.0 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
PHIL 101	Introduction to Western Philosophy	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
	Fine Arts elective	3.0
	History elective	3.0
	Literature elective (any ENGL course over 200-level)	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 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
or		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0

Criminal Justice Core Requirements		58.0 - 64.0 Credits
Justice Sequence		
BLAW 342	Criminal Law	4.0
CJ 204	Criminology	3.0
CJ 206	Criminal Justice	3.0
CJ 276	Computer Crime	3.0
CJ 277	Correctional Practices	3.0

CJ 278	Law Enforcement	3.0
CJ 360	Juvenile Justice	3.0
CJ 374 WI	Restorative Justice	3.0
CJ 375	Criminal Procedure	3.0
CJ 376	Sentencing and Punishment	3.0
CJ 390 WI	Internship in Criminal Justice	0.0 - 6.0
PHIL 330	Ethical Issues in Criminal Justice	3.0

Writing/Communication Sequence

COM 230	Techniques of Speaking	3.0
COM 375 WI	Grant Writing	3.0

Theory Sequence

SOC 260 WI	Classical Social Theory	3.0
SOC 460 WI	Contemporary Social Theory	3.0
PSCI 329	Theories of 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

Criminal Justice Specialization Courses

**24.0-
25.0
Credits**

Students select eight of the following courses:

Forensics

CJ 265	Criminal Investigation	3.0
CJ 378	Study of Forensic Science	3.0
CJ 379	Forensic DNA Analysis	3.0
PSY 370	Forensic Psychology	3.0

Cybercrime

CJ 273	Surveillance, Technology and the Law	3.0
CJ 274	Sex, Violence, and Crime on the Internet	3.0
CJ 377	Intellectual Property Theft in the Digital Age	3.0

Crime and Procedures

CJ 266	Crime Prevention Planning	3.0
CJ 267	Introduction to Security Studies	3.0
CJ 275	Issues in Domestic Violence	3.0
CJ 280	Communities and Crime	3.0
CJ 282	Community Policing	3.0
CJ 289	Terrorism	3.0
CJ 372	Death Penalty	3.0
CJ 373	Environmental Crimes	3.0
BLAW 348	White Collar Crime	4.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 365	Politics, Law & Justice	3.0

Other Social Science Electives**15.0
Credits****Students select four of the following courses:**

SOC 115	Social Problems	3.0
SOC 120	Sociology of the Family	3.0
SOC 220	Wealth and Power	3.0
SOC 240	Urban Sociology	3.0
SOC 320	Sociology of Deviance	3.0
CJ 380	Special Topics in Criminal Justice	3.0
CJ 399	Independent Study in Criminal Justice	3.0
SOC 380	Special Topics in Sociology	3.0
PSCI 363	Constitutional Law II	3.0

Students select one of the following courses:

ANTH 312	Approaches to Intercultural Behavior	3.0
COM 345	Intercultural Communication	3.0
SOC 210	Race and Ethnicity	3.0

Electives	23.0- 29.0 Credits
Free electives	23.0 - 29.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BS Criminal Justice
4 YR UG No Co-op Concentration

Recommended Plan Of Study

		Credits
Term 1		
CJ 206	Criminal Justice	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
CHEM 111	General Chemistry I	4.0
or		
BIO 107	Cells, Genetics & Physiology and BIO 108 Lab	4.0
	<i>Term Credits</i>	14.0
Term 2		
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
SOC 115	Social Problems	3.0
UNIV 101	The Drexel Experience	1.0
CHEM 112	General Chemistry II	4.0
or		
BIO 109	Biological Diversity, Ecology & Evolution and BIO 110 Lab	4.0
	<i>Term Credits</i>	14.0
Term 3		
ANTH 101	Introduction to Cultural Diversity	3.0
CJ 204	Criminology	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCL 100	Introduction to Political Science	4.0
SOC 260	Classical Social Theory	3.0
	<i>Term Credits</i>	16.0
Term 4		
CJ 277	Introduction to Correctional Practices	3.0
COM 220	Qualitative Research Methods	3.0
	Criminal Justice specialization course (See degree requirements for list)	3.0
	History elective	3.0
	<i>Term Credits</i>	12.0
Term 5		
CJ 278	Introduction to Law Enforcement	3.0
CJ 360	Juvenile Justice	3.0
COM 230	Techniques of Speaking	3.0
SOC 250	Research Methods I	3.0
MATH 121	Calculus I	4.0
or		
MATH 101	Introduction to Math Analysis	4.0
	<i>Term Credits</i>	16.0
Term 6		
CJ 276	Introduction to Computer Crime	3.0
PHIL 101	Introduction to Western Philosophy	3.0
SOC 364	Computer-Assisted Data Analysis	3.0
MATH 122	Calculus II	4.0
or		
MATH 102	Introduction to Math Analysis	4.0
	English (ENGL) course 200-level or above	3.0
	Social science course (See degree requirements)	3.0

	<i>Term Credits</i>	19.0
Term 7		Credits
CJ 375	Criminal Procedure	3.0
CJ 390	Internships in Criminal Justice	3.0
COM 375	Grant Writing	3.0
	Free elective	3.0
	Fine arts elective	3.0
	<i>Term Credits</i>	15.0
Term 8		Credits
CJ 374	Restorative Justice	3.0
PSCI 329	Theories of Justice	3.0
PSY 101	General Psychology I	3.0
SOC 320	Sociology of Deviant Behavior	3.0
	Social science course (See degree requirements)	3.0
	<i>Term Credits</i>	15.0
Term 9		Credits
SOC 460	Contemporary Social Theory	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
or		
SOC 210	Race and Ethnic Relations	3.0
or		
COM 345	Intercultural Communication	3.0
	Criminal Justice specialization courses (See degree requirements for list)	6.0
	Free elective	3.0
	<i>Term Credits</i>	15.0
Term 10		Credits
BLAW 342	Criminal Law	4.0
CJ 376	Sentencing: The History, Necessity and Morality of Punishment in America	3.0
PHIL 330	Ethical Issues in Criminal Justice	3.0
	Free elective	4.0
	<i>Term Credits</i>	14.0
Term 11		Credits
	Criminal Justice specialization courses (See degree requirements for list)	9.0
	Free electives	7.0
	<i>Term Credits</i>	16.0
Term 12		Credits
	Criminal Justice specialization courses (See degree requirements for list)	6.0
	Free electives	10.0
	<i>Term Credits</i>	16.0
	Total Credits (minimum)	182.0

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Minor in Computer Crime

24.0 credits

Computers have created new opportunities for crime and have affected the requisite capacity to commit criminal acts. The minor in computer crime provides students with an overview of the behavioral, legal, technical, and administrative issues faced by the criminal justice system and security communities in addressing crime involving computers and related networking technologies. The curriculum exposes students to state-of-the-art solutions used within the public and private sectors to respond to and prevent computer crime.

Required courses

CJ 204	Criminology	3.0
CJ 206	Criminal Justice	3.0
CJ 274	Sex, Violence & Crime on the Internet	3.0
CJ 276	Computer Crime	3.0
CJ 365	Computer Investigations and the Law	3.0
CJ 377	Intellectual Property Theft	3.0

Additional Elective Courses

**6.0
Credits**

Students select two courses from the following list:

CJ 265	Criminal Investigation	3.0
CJ 266	Crime Prevention Planning	3.0
CJ 267	Introduction to Security Studies	3.0
CJ 273	Surveillance, Technology and the Law	3.0
CJ 375	Criminal Procedure	3.0
CJ 380	Special Topics in Criminal Justice	3.0

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Catalog 2010-11

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

CJ 204	Criminology	3.0
CJ 206	Criminal Justice	3.0
CJ 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:

CJ 282	Community Policing	3.0
COM 355	Ethnography of Communication	3.0
COM 365	Journalists, the Courts, and the Law	3.0
CJ 380	Special Topics in Criminal Justice	3.0
SOC 115	Social Problems	3.0
SOC 120	Sociology of the Family	3.0
PSCI 365	Politics, Law, and Justice	3.0
PSY 150	Introduction to Social Psychology	3.0
PSY 240 WI	Abnormal Psychology	3.0
PSY 370	Forensic Psychology	3.0

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Minor in Paralegal Studies

24.0 credits (minimum)

The minor in paralegal studies provides instruction in legal research and writing, a background in the structure of the courts and government agencies, as well as additional preparation for the paralegal profession.

The minor consists of four required courses and four electives. While most employers do not require certification, students completing the program can sit for the two-day National Association of Legal Assistants (NALA) examination. Those passing this examination are entitled to use the certified Legal Assistant (CLA) designation.

Required courses		12.0
BLAW 201	Business Law I	4.0
CJ 381	Legal Research and Writing I	3.0
CJ 382	Legal Research and Writing II	3.0
CJ 276	Computer Crime	3.0

Additional Elective Courses		12.0- 14.0 Credits
Students select four courses from the following list:		
BLAW 202	Business Law II	4.0
BLAW 330	Real Estate (pre-req BLAW 202)	4.0
CJ 274	Sex, Violence & Crime on the Internet	3.0
CJ 377	Intellectual Property Theft	3.0
COM 345	Intercultural Communication	3.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSY 370	Forensic Psychology	3.0

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English

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.

Drexel University

Catalog 2010-11

English

Bachelor of Arts Degree : 182.0 credits

Degree requirements (incoming students, 2010/2011)

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

*ENGL 101 and ENGL 102 may be replaced by ENGL 105 if the student qualifies; ENGL 103 may be replaced by any other ENGL course if the grade for ENGL 105 is "A."

College requirements*		44.0 - 45.0 Credits
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Foreign language courses		
Any two (2) consecutive foreign language courses (completing level 201)		8.0

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
DANC 201 WI	Dance Appreciation	3.0
DANC 210	Introduction to Dance	3.0
DANC 220	History of Dance	3.0
DANC 325 WI	20th-Century Dance History	3.0
FMST 150	American Classic Cinema	3.0
FMVD 230	Basic Filmmaking	3.0
FMST 250	The Documentary Tradition	3.0
FMST 355	Contemporary Cinema	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
MUSC 130	Introduction to Music	3.0
MUSC 231 WI	Music History I	3.0
MUSC 232 WI	Music History II	3.0
MUSC 236	Rock Music Through the Mid-60s	3.0
MUSC 238	Rock Music Since the Mid-60s	3.0
PHIL 101	Introduction to Western Philosophy	3.0
PHIL 105	Critical Reasoning	3.0

PHIL 121	History of Ideas	3.0
PHIL 211	Metaphysics	3.0
PHIL 221	Epistemology	3.0
PHIL 231	Aesthetics	3.0
PHIL 251	Ethics	3.0
PHTO 110	Basic Photography	3.0
PHTO 115	Principles of Photography	3.0
THTR 115	Theatrical Experience	3.0
THTR 221 WI	Theatre History I	3.0
THTR 222 WI	Theatre History II	3.0

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

ANTH 110	The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ANTH 210	Worldview: Science, Religion, Magic	3.0
COM 150	Mass Media and Society	3.0
COM 230	Techniques of Speaking	3.0
PSCI 100	Introduction to Political Science	4.0
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:

ANTH 212	Topics in World Ethnography	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
COM 360	International Communication	3.0
COM 361	International Public Relations	3.0
COM 362	International Negotiations	3.0
FMST 160	European Cinema	3.0
FMST 245	Non-Western Cinema	3.0
HIST 209	The US and Central America	3.0
HIST 235	The Great War, 1914-1918	3.0
HIST 236	World War II	3.0
HIST 259	History of Europe, 20th Century	3.0
HIST 270 WI	Introduction to Latin American History	3.0
MUSC 331	World Musics	3.0
PHIL 335	Global Ethical Issues	3.0
PSCI 150	International Politics	4.0
SOC 340	Globalization	2.0

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

AFAS 101	Intellectual/Cultural Foundations of the African-American Experience	3.0
AFAS 201	African-American Aesthetics	
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 215	Anthropology of Gender	3.0
COM 345	Intercultural Communication	3.0
ENGL 345	American Ethnic Literature	3.0

ENGL 350	Jewish Literature and Civilization	3.0
ENGL 355 WI	Women and Literature	3.0
ENGL 365 WI	Topics in African American Literature	3.0
HIST 212	Themes in African-American History	3.0
HIST 214	The Civil Rights Movement in the US	3.0
HIST 215	American Slavery	3.0
HIST 216	Freedom in America	3.0
HIST 218	Race and Film in US History	3.0
HIST 223	Women and Work in America	3.0
HIST 224	Women in American History	3.0
HIST 249	Modern Jewish History	3.0
JUDA 201	Jewish Literature and Civilization	3.0
JUDA 202	Jewish Life and Culture in the Middle Ages	3.0
JUDA 203	Modern Jewish History	3.0
MUSC 333	Afro-American Music USA	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
WMS 101	Introduction to Women's Studies	3.0
WMS 240	Women and Society in a Global Context	3.0
WMS 250	African American Herstories	3.0

Major requirements **84.0 Credits**

Foundational and professional courses **57.0 Credits**

All of the following:

ENGL 205 WI	American Literature I	3.0
ENGL 206 WI	American Literature II	3.0
ENGL 211 WI	British Literature I	3.0
ENGL 212	British Literature II	3.0
ENGL 315 WI	Shakespeare	3.0
ENGL 490	Seminar in English/American Literature	4.0
ENGL 492	Seminar in World Literature	4.0
ENGL 499	Senior Project in English	4.0
PHIL 381 WI	Philosophy in Literature	3.0

Three (3) of the following

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: 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
ENGL 214	Readings in Fiction	3.0
ENGL 215 WI	Readings in Poetry	3.0
ENGL 216 WI	Readings in Drama	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 330	The Bible as Literature	3.0
ENGL 335	Mythology	3.0

Three (3) of the following electives

ENGL 305 WI	The Mystery Story	3.0
ENGL 306	Literature of Baseball	3.0
ENGL 307	Literature of the Holocausts	3.0
ENGL 323	Literature and the Other Arts	3.0
ENGL 345	American Ethnic Literature	3.0
ENGL 350	Jewish Literature and Civilization	3.0
ENGL 355 WI	Women and Literature	3.0
ENGL 360 WI	Literature and Society	3.0
ENGL 365	Topics in African American Literature	3.0
ENGL 395 WI	Special Studies in Literature	3.0
ENGL 399	Independent Study in English	3.0

Creative and Professional Writing

15.0 Credits

Students select five (5) courses total. At least two of the courses must be chosen from the first portion of the list (the first 11 courses):

WRIT 306	Writing About the Media	3.0
WRIT 310 WI	Literary Editing and Publication	3.0
WRIT 312 WI	The Practice of Professional Writing	3.0
WRIT 400	Writing in Cyberspace	4.0
WRIT 405	Internship in Literary Publishing	2.0
COM 260 WI	Fundamentals of Journalism	3.0
COM 300 WI	On-line Journalism	3.0
COM 310 WI	Technical Communication	3.0
COM 315	Advanced Journalism	3.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

WRIT 210 WI	Writing/Peer Tutor Workshop	3.0
WRIT 220 WI	Creative Non-Fiction	3.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
SCRIP 270	Screenwriting I	3.0
SCRIP 275 WI	Screenwriting II	3.0

Science and Technology in the Humanities

12.0 Credits

Four (4) of the following

ENGL 300 WI	Literature and Science	3.0
ENGL 302	Literature and the Environment	3.0
ENGL 303	Science Fiction	3.0

ENGL 370	Topics in Literature and Medicine	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 292	Technology in American Life	3.0
PHIL 311	Computer Ethics	3.0
PHIL 315	Engineering Ethics	3.0
PHIL 341	Philosophy of the Environment	3.0
PHIL 355	Philosophy of Medicine	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0

Free electives	24.0 - 28.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA English
5 YR UG Co-op Concentration

Recommended Plan Of Study

	Credits
Term 1	
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 (1st consecutive course)	4.0
Math elective	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 2	
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 (2nd consecutive course, 201-level)	4.0
Math elective	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 3	
ANTH 101 Introduction to Cultural Diversity	3.0
ENGL 103 Analytical Writing and Reading	3.0
MUSC 130 Introduction to Music	3.0
PHIL 101 Introduction to Western Philosophy	3.0
PSY 101 General Psychology I	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 4	
ENGL 205 American Literature I	3.0
ENGL 211 British Literature I	3.0
PHIL 105 Critical Reasoning	3.0
Lab Science elective	3.0
Social and Behavioral Sciences elective	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 5	
ENGL 206 American Literature II	3.0
ENGL 212 British Literature II	3.0
Diversity studies elective	3.0
International studies elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 6	
COM 260 Fundamentals of Journalism	3.0
ENGL 202 Romanticism to Modernism	3.0
ENGL 203 Post-Colonial Literature I	3.0
SOC 210 Race and Ethnic Relations	3.0
WMST 101 Introduction to Women's Studies	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 7	
COM 300 Computer-Assisted Journalism	3.0
ENGL 207 African American Literature	3.0
ENGL 216 Readings in Drama	3.0
PHIL 381 Philosophy in Literature	3.0
Science, Technology and Human Affairs elective (See degrees requirements list)	3.0

	<i>Term Credits</i>	<i>15.0</i>
Term 8		Credits
COM 340	Desktop Publishing	3.0
ENGL 315	Shakespeare	3.0
WRIT 220	Creative Nonfiction Writing	3.0
	Free electives	6.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
WRIT 310	Literary Editing and Publishin	3.0
	English major foundational courses (See degree requirements)	6.0
	Free electives	6.0
	<i>Term Credits</i>	<i>15.0</i>
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
	Free electives	6.0
	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
HIST 281	History of Science II	3.0
PHIL 361	Philosophy of Science	3.0
ENGL 492	Seminar in World Literature	4.0
or		
ENGL 490	Seminar in English/American Literature	4.0
	Free electives	6.0
	<i>Term Credits</i>	<i>16.0</i>
Term 12		Credits
ENGL 499	Senior Project in English	4.0
WRIT 312	The Practice of Professional Writing	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>16.0</i>
	Total Credits (minimum)	182.0-183.0

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Drexel University

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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		24.0
Students select three (3) of the following courses:		9.0
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 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
ENGL 214	Readings in Fiction	3.0
ENGL 215 WI	Readings in Poetry	3.0
ENGL 216 WI	Readings in Drama	3.0
Students select two (2) of the following courses:		6.0
WRIT 220 WI	Creative Non-Fiction Writing	3.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304 WI	Special Topics: (Humor, Autobiography, Writing about the Media)	3.0
WRIT 306	Writing about the Media	3.0
WRIT 310	Literary Editing and Publishing	3.0
WRIT 312	Practice of Professional Writing	3.0
WRIT 400	Writing in Cyberspace	4.0
WRIT 405	Internship in Publishing	2.0
Students select three (3) of the following courses:		9.0
ENGL 300 WI	Literature and Science	3.0
ENGL 302	Environmental Literature	3.0
ENGL 303	Science Fiction	3.0

ENGL 305 WI	The Mystery Story	3.0
ENGL 306	Literature of Baseball	3.0
ENGL 307	Literature of the Holocausts	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 330	The Bible as Literature	3.0
ENGL 335	Mythology	3.0
ENGL 345	American Ethnic Literature	3.0
ENGL 350	Jewish Literature and Civilization	3.0
ENGL 355 WI	Women and Literature	3.0
ENGL 360 WI	Literature and Society	3.0
ENGL 365	Topics in African American Literature	3.0
ENGL 370	Topics in Literature and Medicine	3.0
ENGL 395 WI	Special Studies in Literature	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. Other substitutions are permissible at the discretion of the Program Director.

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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, PhD
Director, Certificate Program in Writing and Publishing
Department of English and Philosophy
Drexel University
Philadelphia, PA 19104
kotzinmn@drexel.edu
Tel: 215-895-2445
Fax: 215-895-1071
www.drexel.edu/coas/engphil

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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 WI	Business Communication	3.0
COM 350 WI	Message Design and Evaluation	3.0
or		
COM 375 WI	Grant Writing	3.0

Students select one of the following professional writing courses:

COM 320 WI	Science Writing	3.0
COM 420	Technical Editing	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	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

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

COM 260 WI	Fundamentals of Journalism	3.0
COM 300 WI	On-line Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
COM 390 WI	Global Journalism	3.0
WRIT 220 WI	Creative Non-Fiction	3.0
WRIT 225 WI	Creative Writing	3.0

WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304 WI	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

Technical Communication and Publishing

Required courses

COM 310 WI	Technical Communication	3.0
COM 375 WI	Grant Writing	3.0

Students select one of the following professional writing courses:

COM 320 Wi	Science Writing	3.0
COM 350 WI	Message Design and Evaluation	3.0
COM 380	Special Topics (as appropriate, Copy Editing for example)	3.0
COM 420	Technical Editing	3.0

Students select one of the following publishing courses:

WRIT 310	Literary Editing and Publishing	3.0
WRIT 400	Writing in Cyberspace	4.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

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

COM 260 WI	Fundamentals of Journalism	3.0
COM 300 WI	On-line Journalism	3.0
COM 390 WI	Global Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
WRIT 220 WI	Creative Non-Fiction	3.0
WRIT 225WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304 WI	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

Journalism

Required course:

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

COM 300 WI	On-line Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
COM 390 WI	Global Journalism	3.0

Students select one of the following publishing courses:

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WRIT 310	Literary Editing and Publishing	3.0
WRIT 400	Writing in Cyberspace	4.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

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

COM 270 WI	Business Communication	3.0
or		
COM 310 WI	Technical Communication	3.0
COM 320 WI	Science Writing	3.0
COM 375 WI	Grant Writing	3.0
COM 420	Technical Editing	3.0
WRIT 220 WI	Creative Non-Fiction	3.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304 WI	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

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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 (one of which must be a 200-level course)

		Credits
WRIT 220 WI	Creative Non-Fiction	3.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304 WI	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

Students select one of the following publishing courses:

WRIT 310	Literary Editing and Publishing	3.0
WRIT 400	Writing in Cyberspace	4.0
WRIT 405	Internship in Literary Publishing*	2.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0
COM 350 WI	Message Design and Evaluation	3.0

* WRIT 405 Must be taken twice if no other publishing course is taken.

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

COM 260 WI	Fundamentals of Journalism	3.0
COM 300 WI	On-line Journalism	3.0
COM 390 WI	Global Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
COM 270 WI	Business Communication	3.0
or		
COM 310 WI	Technical Communication	3.0
COM 320 WI	Science Writing	3.0
COM 350 WI	Message Design and Evaluation	3.0
COM 420	Technical Editing	3.0
COM 375 WI	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 310	Literary Editing and Publishing	3.0
WRIT 400	Writing in Cyberspace	3.0
WRIT 405	Internship in Literary Publishing*	2.0
COM 335	Electronic Publishing	3.0
COM 340	Desktop Publishing	3.0

* WRIT 405 Must be taken twice.

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

Creative writing

WRIT 220 WI	Creative Non-Fiction	3.0
and	Any 300-level writing (WRIT) course	3.0

or

WRIT 225 WI	Creative Writing	3.0
and	Any 300-level writing (WRIT) course	3.0

Professional writing

COM 310 WI	Technical Communication	3.0
and		
COM 420	Technical Editing	3.0
or		
COM 375 WI	Grant Writing	3.0

or

COM 270 WI	Business Communication	3.0
and		
COM 375 WI	Grant Writing	3.0
or		
COM 350 WI	Message Design and Evaluation	3.0

Journalism

COM 260 WI	Fundamentals of Journalism	3.0
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And one of the following:

COM 300 WI	On-line Journalism	3.0
COM 315	Advanced Journalism	3.0
COM 390 WI	Global Journalism	3.0

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Environmental Science

Bachelor of Science Degree: 186.5 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 environmental policy, sociology, ethics, and economics.

For more information about the program, visit the College's Environmental Science web page.

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Environmental Science

Bachelor of Science Degree: 186.5 credits

Degree requirements (incoming students, 2010/2011)

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

Humanities and Social Science		41.0 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
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Communication	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	4.0
ENVP 360	Environmental Movements in America	3.0
ENVP 365	Introduction to Environmental Policy	3.0
PHIL 341	Philosophy of the Environment	3.0
or		
PHIL 251	Ethics	
UNIV 101	The Drexel Experience	3.0
Humanities/Social science electives		6.0

Bioscience		22.5 Credits
BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 217	Evolution	4.0
BIO 221	Microbiology	3.0
BIO 222	Microbiology Lab	2.0

Chemical and Physical Sciences		40.0 Credits
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
CHEM 241	Organic Chemistry	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry I Laboratory	3.0
PHEV 145	Weather 1: Climate and Global Change	4.0
PHYS 152	Introductory Physics I	4.0

PHYS 153	Introductory Physics II	4.0
PHYS 154	Introductory Physics III	4.0

Mathematics and Statistics **18.0 Credits**

MATH 410	Scientific Data Analysis I	3.0
MATH 411	Scientific Data Analysis II	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
or		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
MATH 239	Intermediate Calculus	4.0

Environmental Science Core Requirements **30.0 Credits**

ENVS 230	General Ecology	3.0
ENVS 260	Environmental Science and Society I	3.0
ENVS 272	Physical Geology	4.0
ENVS 284 WI	Physiological and Population Ecology	3.0
ENVS 285	Population Ecology Laboratory	2.0
ENVS 286 WI	Community and Ecosystem Ecology	3.0
ENVS 287	Community Ecology Laboratory	2.0
ENVS 338	Biodiversity and Conservation	3.0
ENVS 410	Physiological Ecology	3.0
or		
ENVS 412	Biophysical Ecology	3.0
ENVS 441 WI	Issues in Global Change I: Seminar	2.0
ENVS 442	Issues in Global Change II: Research	2.0

Environmental Science Electives* **24.0 Credits**

Each student selects 24 credits of Environmental Science electives from the following areas:

Taxonomy Electives

BIO 224	Form, Function ,& Evolution of Vertebrates	4.0
BIO 225	Vertebrate Bio & Evolution Lab	2.0
BIO 254	Invertebrate Morphology and Physiology	3.0
BIO 255	Invertebrate Morphology and Physiology Lab	2.0
ENVS 364	Animal Behavior	3.0
ENVS 365	Animal Behavior Lab	2.0
ENVS 375	Invertebrate Paleontology	4.0
ENVS 392	Ichthyology and Herpetology	4.0
ENVS 476	Paleobotany	3.0
ENVS 477	Vertebrate Paleontology	3.0

Process Electives

ENVS 401	Chemistry of the Environment	3.0
ENVS 405	Advanced Population Ecology	3.0
ENVS 412	Biophysical Ecology	3.0
ENVS 413	Advanced Population Ecology	3.0
ENVS 414	Advanced Community Ecology	3.0

Habitat Specific Electives

ENVS 322	Tropical Ecology	3.0
ENVS 330	Aquatic Ecology	3.0
ENVS 336	Terrestrial Ecology	5.0
ENVS 382	Field Botany: NJ Pine Barrens	5.0
ENVS 383	Ecology of the NJ Pine Barrens	5.0
ENVS 388	Marine Field Methods	5.0
ENVS 390	Marine Ecology	3.0

Paleo-Geology Electives

ENVS 270	History of Life on Earth	4.0
ENVS 374	Sedimentary Environments	3.0
ENVS 375	Invertebrate Paleontology	4.0
ENVS 476	Paleobotany	3.0
ENVS 477	Vertebrate Paleontology	3.0

Environmental Health Electives

ENVS 321	Environmental Health	3.0
ENVS 331	Industrial Hygiene I	3.0
ENVS 332	Industrial Hygiene II	3.0
ENVS 431	Epidemiology	3.0
ENVS 436	Principles of Toxicology I	3.0
ENVS 437	Principles of Toxicology II	3.0

Environmental Policy Electives

ENVP 245	Sociology of the Environment	3.0
ENVS 262 WI	Environmental Science and Society II	3.0
ENVS 351	Introduction to Resources and Environmental Economics	3.0
ENVS 370	Practice of Resource and Environmental Economics	3.0

Chemical and Physical Sciences Electives

CHEM 230	Quantitative Analysis	3.0
CHEM 231 WI	Quantitative Analysis Lab	2.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry II Lab	3.0
PHEV 146	Weather 2: Analysis/Forecast	4.0

Equatorial Guinea: Bioko Island Study Abroad Program **

ENVS 341	Equatorial Guinea: Society and Environment	4.5
ENVS 342	Equatorial Guinea: Natural Resource Economics	4.5
ENVS 343	Equatorial Guinea: Field Methods in Tropical Ecology	3.0
ENVS 344	Equatorial Guinea: Research Methods in Tropical Ecology	6.0

Free electives

Free electives	11.0 - 13.0
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*Environmental Science electives are chosen in consultation with the student's

advisor to give a total of 63 credits in environmental science. Other required or elective courses in the humanities, mathematics and other sciences, and general electives make up the total 185.5 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.

****The Equatorial Guinea: Bioko Island Study Abroad Program** offers a unique opportunity for undergraduates and recent graduates to study tropical biodiversity and its conservation, with an emphasis on field work that takes advantage of Bioko Island's pristine rainforests ranging from sea level to over 10,000 feet in altitude, its seven species of rare monkeys and its four species of nesting sea turtles. For more information, please visit the Drexel Study Abroad Office.

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA History
4 YR UG Co-op Concentration

Recommended Plan Of Study

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes World Civilization I	3.0
PSCI 110	American Government I	4.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (103-level or higher)	4.0
	<i>Term Credits</i>	15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
UNIV 101	The Drexel Experience	2.0
	Foreign language course (201-level or higher)	4.0
	Mathematics course	3.0-4.0
	<i>Term Credits</i>	15.0-16.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
or		
PSCI 130	Research Methods in Political Science I	4.0
	Free elective	3.0-4.0
	Mathematics course	3.0-4.0
	<i>Term Credits</i>	16.0-18.0
Term 4		Credits
HIST 201	US History to 1815	3.0
	Diversity studies elective	3.0
	History of Latin America, Africa, or Asia	3.0
	Humanities/Fine Arts elective	3.0
	Science elective (See degree requirements)	3.0-4.0
	<i>Term Credits</i>	15.0-16.0
Term 5		Credits
HIST 202	US History, 1815-1900	3.0
HIST 296	Research Methods in History	3.0
	Humanities/Fine Arts elective	3.0
	Science elective (See degree requirements)	3.0-4.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	15.0-16.0
Term 6		Credits
HIST 203	US History since 1900	3.0
PSCI 120	History of Political Thought	4.0
	Diversity studies elective	3.0
	Free elective	3.0
	International studies elective	3.0
	<i>Term Credits</i>	16.0
Term 7		Credits
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0

	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 8		Credits
HIST 301	The Study of History	3.0
	Free elective	3.0
	History electives (200-level and above HIST courses)	6.0
	History of Europe course (200-level or higher)	3.0
	Humanities/Fine Arts elective	3.0
	<i>Term Credits</i>	<i>18.0</i>
Term 9		Credits
	Free electives	6.0
	History electives (200-level and above HIST courses)	6.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
HIST 492	Senior Seminar in History	3.0
	Free elective	3.0
	History electives (200-level and above HIST courses)	6.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
HIST 491	Senior Seminar II	3.0
	Free electives	6.0
	History electives (200-level and above HIST courses)	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 12		Credits
	Free electives	9.0
	History electives (200-level and above HIST courses)	6.0
	<i>Term Credits</i>	<i>15.0</i>
	Total Credits (minimum)	182.0-187.0

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Minor in Ecology

The minor in ecology meets the needs of engineering, science, arts, applied arts, information, and business students interested in environmental science. Prior to taking ENVS 230 General Ecology, students are minimally expected to have had one term to a year of both general biology and general chemistry.

Required Courses		26.0
BIO 217	Evolution	4.0
ENVS 230	General Ecology	3.0
ENVS 260	Environmental Science and Society	3.0
ENVS 284 WI	Physiological and Population Ecology	3.0
ENVS 285	Population Ecology Laboratory	2.0
ENVS 286 WI	Community and Ecosystem Ecology	3.0
ENVS 287	Community Ecology Laboratory	2.0
ENVS 338	Biodiversity and Conservation	3.0
PHEV 145	Weather 1: Climate and Global Change	4.0

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 **24.0**

BIO 201	Human Physiology I	4.0
ENVS 436	Principles of Toxicology I	3.0
ENVS 331	Industrial Hygiene I	3.0
ENVS 431	Epidemiology	3.0
ENVS 321	Environmental Health	3.0
	A statistics course	3.0

Students select:

BIO 221	Microbiology	3.0
and		
BIO 222	Microbiology Lab	2.0
or		
ENVS 316	Sanitary Microbiology	3.0
and		
	Environmental Health (ENVS) elective	3.0

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.

Environmental Studies

About Environmental Studies

The causes and consequences of environmental problems are extremely complex, involving the connection of natural ecological systems to human systems such as physical infrastructure and the built environment. Equally important to understanding environmental problems are the social, economic and political considerations that govern society's ability to balance its current needs and desires with those of future generations. Indeed, ecological problems and their consequences are an enduring problem of society. Problems such as air and water pollution, exposure to toxic chemicals, sprawling land development, environmentally damaging energy extraction and unsustainable energy use practices, to name a few, all conspire to negatively influence our natural world as well as human health and well being.

About the Curriculum

The BS in Environmental Studies is an interdisciplinary program that draws on the University's academic strengths in science, technology, social science and communication. Courses and faculty are drawn from a diverse set of academic programs: including the natural sciences, social sciences and the humanities. The program also benefits from Drexel's urban location -- as issues related to urban sustainability policy and planning, including urban redevelopment and land reuse practices, transportation policy, green building, energy efficiency, urban farming and food systems, recycling, and racial and class-based environmental justice and health -- are core topics of the program of study. The Environmental Studies degree is designed to prepare students for a wide set of vocational opportunities with governmental agencies, corporations, and nonprofit organizations that develop, implement and communicate environmental policies. Students are strongly encouraged to gain valuable professional experience through Drexel's cooperative education program.

For more information visit the Environmental Studies page at Drexel University. .

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Environmental Studies

Bachelor of Science Degree: 182.0 credits

Required courses (incoming students, 2010/2011)

General requirements		67.0 Credits
UNIV 101	The Drexel Experience	3.0
ANTH 101	Introduction to Cultural Anthropology	3.0
or		
ANTH 110	Human Past: Anthropology and Prehistoric Archeology	
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
COM 150	Mass Media and Society	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	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
PSCI 110	American Government	4.0
PSY 101	General Psychology I	3.0
SOC 101	Introduction to Sociology	3.0
Two English (ENGL) electives*		6.0
Philosophy (PHIL) elective		3.0
Two History (HIST) electives		6.0

*Any English (ENGL) course at the 200-level or higher.

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

Environmental Studies Core Requirements

**66.0
Credits**

Theory Sequence Requirements:

COM 210	Theory and Models of Communication	3.0
SOC 260 WI	Classical Social Theory	3.0
ANTH 410	Cultural Theory	3.0
or		
SOC 460 WI	Contemporary Social Theory	

Methods Sequence Requirements:

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

Natural Science Requirements

ENVS 230	General Ecology	3.0
ENVS 338	Biodiversity and Conservation	3.0
ENVS 286 WI	Community and Ecosystem Ecology	3.0
	Natural science elective*	3.0

*Any other natural science course from the Environmental Science Program Elective list (below).

Other Required Courses:

ANTH 360	Culture and the Environment	3.0
COM 316	Campaigns for Health and the Environment	3.0
COM 317 WI	Environmental Communication	3.0
CJ 373	Environmental Crimes	3.0
ENVP 345	Sociology of the Environment	3.0
ENVP 346	Environmental Justice	3.0
ENVP 360	Environmental Movements in America	3.0
ENVP 365	Introduction to Environmental Policy Analysis	3.0
ENVS 260	Environmental Science and Society I	3.0
PSCI 331	Environmental Politics	3.0
SOC 240	Urban Sociology	3.0
SOC 470	Social Change and Planning	3.0

Other Environmental Studies Program Electives**30.0
Credits****Students select 30.0 credits from the followings:**

BIO 118	Basics of Cancer	3.0
BIO 220	Essential Microbiology	3.0
CHEM 111	General Chemistry I	3.0
CHEM 112	General Chemistry II	3.0
CHEM 151	Applied Chemistry	3.0
COM 101	Human Communication	3.0
COM 230	Techniques of Speaking	3.0
COM 260 WI	Fundamentals of Journalism	3.0
COM 270 WI	Business Communication	3.0
COM 280	Public Relations	3.0
COM 310 WI	Technical Communication	3.0
COM 318	Film, Celebrity and the Environment	3.0
COM 320 WI	Science Writing	3.0
COM 350 WI	Message Design and Evaluation	3.0
COM 375 WI	Grant Writing	3.0
ENGL 302	Environmental Literature	3.0
ENVS 284 WI	Physiological and Population Ecology	3.0
ENVS 285	Population Ecology Lab	2.0
ENVS 321	Environmental Health	3.0
ENVS 322	Tropical Ecology	3.0
ENVS 330	Aquatic Ecology	3.0
ENVS 413	Advanced Population Ecology	3.0
ENVS 431	Environmental Epidemiology	3.0
ENVS 436	Principles of Toxicology I	3.0
ENVS 437	Principles of Toxicology II	3.0
ENVS 441 WI	issues in Global Change I	3.0
ENVS 437	Issues in Global Change II	3.0

HNRS 201	Colloquium I: Fairmont Park	3.0
PHEV 145	Weather I: Climate and Global Change	4.0
PHIL 335	Global Ethical Issues	3.0
PHIL 341	Philosophy of the Environment	3.0
PSCI 211	American Government II	3.0
PSCI 371	Science, Technology and Public Policy	3.0
PSCI 372	City in US Political Development	3.0
PSY 150	Introduction to Social Psychology	3.0
SOC 110	Sociology of the Future	3.0
SOC 115	Social Problems	3.0
SOC 235	Sociology of Health	3.0
SOC 330	Developing Nations	3.0
SOC 340	Globalization	3.0
SOC 343	American Experience of Wilderness	3.0
SOC 344	Social Movements	3.0
SOC 380	Sociology of Disasters	3.0

Electives	17.0
Free electives	17.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BS Environmental Studies
4 YR UG No Co-op Concentration

Recommended Plan Of Study

		Credits
Term 1		
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	15.0
Term 2		
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology & Evolution Lab	1.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
UNIV 101	The Drexel Experience	2.0
	Environmental Studies program elective (See degree requirements for list)	3.0
	<i>Term Credits</i>	16.0
Term 3		
COM 150	Mass Media and Society	3.0
ENGL 103	Analytical Writing and Reading	3.0
ANTH 110	Human Past: Anthropology and Prehistoric Archeology	3.0
or		
ANTH 101	Introduction to Cultural Diversity	3.0
	Environmental Studies program elective (See degree requirements for list)	3.0
	<i>Term Credits</i>	12.0
Term 4		
COM 210	Theory and Models of Communication	3.0
COM 220	Qualitative Research Methods	3.0
COM 230	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENVS 230	General Ecology	3.0
ENVS 260	Environmental Science and Society I	3.0
	<i>Term Credits</i>	19.0
Term 5		
ANTH 360	Culture and the Environment	3.0
ECON 202	Principles of Macroeconomics	4.0
ENVP 345	Sociology of the Environment	3.0
SOC 250	Research Methods I	3.0
SOC 260	Classical Social Theory	3.0
	<i>Term Credits</i>	16.0
Term 6		
CJ 373	Environmental Crimes	3.0
ENVS 286	Community and Ecosystem Ecology	3.0
PSCI 110	American Government I	4.0
PSY 101	General Psychology I	3.0
SOC 364	Computer-Assisted Data Analysis	3.0
	<i>Term Credits</i>	16.0
Term 7		
		Credits

ENVP 346	Environmental Justice	3.0
ENVP 360	Environmental Movements in America	3.0
PSCI 331	Environmental Politics	3.0
	Environmental Studies program elective (See degree requirements for list)	3.0
	Natural science elective	3.0
	<i>Term Credits</i>	15.0
Term 8		Credits
COM 317	Environmental Communication	3.0
	English literature course 200-level or above	3.0
	Free elective	3.0
	Environmental Studies program electives (See degree requirements for list)	6.0
	<i>Term Credits</i>	15.0
Term 9		Credits
COM 316	Campaigns for Health & Envrmt	3.0
SOC 470	Social Change & Planning	3.0
	English literature course 200-level or above	3.0
	Environmental Studies program elective (See degree requirements for list)	3.0
	History (HIST) elective	3.0
	<i>Term Credits</i>	15.0
Term 10		Credits
ENVP 365	Introduction to Environmental Policy Analysis	3.0
	Free elective	3.0
	Environmental Studies program electives (See degree requirements for list)	6.0
	Philosophy (PHIL) elective	3.0
	<i>Term Credits</i>	15.0
Term 11		Credits
SOC 460	Contemporary Social Theory	3.0
or		
ANTH 410	Cultural Theory	3.0
	Free elective	3.0
	Environmental Studies program elective (See degree requirements for list)	3.0
	History (HIST) elective	3.0
	<i>Term Credits</i>	12.0
Term 12		Credits
ENVS 338	Biodiversity and Conservation	3.0
	Free electives	13.0
	<i>Term Credits</i>	16.0
	Total Credits (minimum)	182.0

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Minor in Environmental Studies

24.0 credits

The environmental studies minor is an interdisciplinary minor designed to give students specializing in other fields a background in contemporary environmental issues and the ability to analyze such issues. For students majoring in such fields as business and engineering, the minor in environmental studies will provide them with the tools to make better decisions about products or projects related to environmental economics, political pollutants, environmental policy, and environmental justice. For students who are liberal arts majors, the minor in environmental studies offers the opportunity to focus on the social- and natural-science aspects of the environment, and to be prepared for issues they may encounter in their careers.

The minor requires a minimum of 24 credits. This includes a core of six courses and at least six credits of natural science electives.

Required courses

ANTH 360	Culture and the Environment	3.0
COM 317 WI	Environmental Communication	3.0
ENVS 260	Environmental Science and Society I	3.0
SOC 240	Urban Sociology	3.0
ENVP 345 WI	Sociology of the Environment	3.0
ENVP 365	Introduction to Environmental Policy Analysis	3.0

Students select a minimum of 6 credits from the following electives:

COM 316	Campaigns for Health and the Environment	3.0
ECON 351	Environmental Economics	4.0
PSCI 331	Environmental Politics	3.0
ENVP 346	Environmental Justice	3.0
ENVP 360	Environmental Movements in America	3.0
CJ 373	Environmental Crimes	3.0
SOC 470	Social Change and Planning	3.0

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History

The Department of History & Politics combines the disciplines of history and political science to provide students with the essential elements of liberal learning. The Department offers a major in history, a major in political science, and 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 complete the core curriculum.

Beyond core introductory and seminar requirements in history, 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.

Degrees Offered

The Department offers both a Bachelor of Science (BS) and a Bachelor of Arts (BA) in History. 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 prefer specific course requirements, including sequences in mathematics and the natural sciences.

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

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History

Bachelor of Arts Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements		68.0 - 72.0Credits
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	3.0
Two math courses		6.0-8.0
Two science courses*		6.0-8.0

*Any Biology (BIO), Chemistry (CHEM), Nutrition (NFS), Physics (PHYS) or Environmental Science (ENVS) course.

Foundation requirements

Two studies in diversity electives		6.0
Two consecutive foreign language courses (must complete level 201)		8.0
Four humanities/fine arts electives		12.0
Four social science electives		12.0
Two international studies electives		6.0

Core History Requirements		49.0 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 201	US History to 1815	3.0
HIST 202	US History, 1815-1900	3.0
HIST 203	US History since 1900	3.0
HIST 296	Research Methods in History +	3.0
HIST 301	The Study of History +	3.0
HIST 490 WI	Senior Seminar in History I +	3.0
HIST 491 WI	Senior Seminar in History II +	3.0
PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
or		
PSCI 150	International Politics	
Any 200-level European History course		3.0
Any History of Latin America, Africa, or Asia		3.0

+ These courses must be taken in sequence.

History Electives***30.0 Credits**

* Only 200-level and above HIST courses will fulfill this this requirement.

Free Electives**32.0- 36.0.0 Credits**

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History

Bachelor of Science Degree: 182.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements		64.0 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	3.0
Any 8-credit math sequence*		8.0
Any 8-credit science sequence**		8.0

*** Sample Math sequences: 8.0**

Additional math sequence options are available. Students should check with the the Department.

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

****Sample Science sequences: 8.0**

Additional science sequence options are available. Check with the the Department.

BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
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

Literature

Nonwestern literature requirement:

One of the following courses:		3.0
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	3.0

Western literature requirement:

One of the following courses:		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 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

Additional general requirements

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	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	4.0
MUSC 130	Introduction to Music	3.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
PHIL 105	Critical Reasoning	3.0
	Any 4-credit statistics course	4.0

Core History Requirements 49.0 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 201	US History to 1815	3.0
HIST 202	US History, 1815-1900	3.0
HIST 203	US History since 1900	3.0
HIST 296	Research Methods in History +	3.0
HIST 301	The Study of History +	3.0
HIST 490 WI	Senior Seminar in History I +	3.0
HIST 491 WI	Senior Seminar in History II +	3.0
PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
or		
PSCI 150	International Politics	4.0
	Any 200-level European History course	3.0
	Any History of Latin America, Africa, or Asia	3.0

+ These courses must be taken in sequence.

History Electives* 30.0 Credits

* Only 200-level and above HIST courses will fulfill this requirement.

Free Electives 40.0 Credits

BS History
4 YR UG Co-op Concentration

Recommended Plan Of Study

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes World Civilization I	3.0
MATH 101	Introduction to Analysis I	4.0
PSCI 110	American Government I	4.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
MATH 102	Introduction to Analysis II	4.0
UNIV 101	The Drexel Experience	2.0
	<i>Term Credits</i>	<i>15.0</i>
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
MUSC 130	Introduction to Music	3.0
PSCI 120	History of Political Thought	4.0
PSY 101	General Psychology I	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 4		Credits
HIST 201	US History to 1815	3.0
SOC 101	Introduction to Sociology	3.0
	History of Latin America, Africa, or Asia	3.0
	Science sequence course 1 (See degree requirements list)	4.0
	Western literature survey course (see degree requirements for list of options)	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 5		Credits
HIST 202	US History, 1815-1900	3.0
HIST 296	Research Methods in History	3.0
ENGL 203	Post-Colonial Literature I	3.0
or		
ENGL 204	Post-Colonial Literature II	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
or		
PSCI 150	International Politics	4.0
	Science sequence course 2 (See degree requirements list)	4.0
	<i>Term Credits</i>	<i>17.0</i>
Term 6		Credits
ECON 201	Principles of Microeconomics	4.0
HIST 203	US History since 1900	3.0
ANTH 110	The Human Past	3.0
or		
ANTH 101	Introduction to Cultural Diversity	3.0
	Free elective	4.0
	<i>Term Credits</i>	<i>14.0</i>
Term 7		Credits

ECON 202	Principles of Macroeconomics	4.0
PHIL 105	Critical Reasoning	3.0
.	Free electives	6.0
.	Statistics elective	4.0
.	<i>Term Credits</i>	<i>17.0</i>
Term 8		Credits
HIST 301	The Study of History	3.0
.	Free elective	3.0
.	History electives (200-level and above HIST courses)	6.0
.	History of Europe course (200-level or higher)	3.0
.	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
.	Free electives	9.0
.	History electives (200-level and above HIST courses)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
HIST 490	Senior Seminar I	3.0
.	Free electives	6.0
.	History electives (200-level and above HIST courses)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
HIST 491	Senior Seminar II	3.0
.	Free electives	6.0
.	History electives (200-level and above HIST courses)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
Term 12		Credits
.	Free electives	6.0
.	History electives (200-level and above HIST courses)	6.0
.	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0

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Drexel University

Catalog 2010-11

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 25 credits of coursework from the following categories:

Required courses

PSCI 110	American Government*	4.0
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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 US History courses 6.0

Some examples of US History courses include the following:

HIST 214	US Civil Rights Movement	3.0
HIST 215	American Slavery	3.0
HIST 216	Freedom in America	3.0
HIST 218	Race and Film in US History	3.0
HIST 220	History of American Business	3.0
HIST 222	History of Work and Workers in America	3.0
HIST 223	Women and Work in America	3.0
HIST 224	Women in American History	3.0
HIST 234	US Civil War	3.0

Two US Government or US Politics courses 6.0

Some examples of US Government or US Politics courses include the following:

PSCI 211	American Government II	3.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 313	State and Local Government	3.0
PSCI 330	Public Opinion and Propaganda	3.0
PSCI 363	Constitutional Law II	3.0
PSCI 364	Constitutional Law III	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
SOC 341	Environmental Movements in America	3.0

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

Drexel University

Catalog 2010-11

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 25 credits of coursework from the following categories:

Required courses		10.0 Credits
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		
PSCI 140	Introduction to Comparative Political Analysis	4.0

Three European History courses	9.0
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Some examples of European History courses are:

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 246	England Elizabeth/Waterloo, 1558-1815	3.0
HIST 247	Modern England, 1815 to Present	3.0
HIST 250	European Revolutionary Ideology	3.0
HIST 251	Fascism	3.0
HIST 252	Europe between Wars, 1919-1939	3.0
HIST 258	History of Europe, 19th Century	3.0
HIST 259	History of Europe, 20th Century	3.0

Two of the following courses		6.0
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 310 WI	Period Studies	3.0
ENGL 315 WI	Shakespeare	3.0
MUSC 231 WI	Music History I	3.0
MUSC 232 WI	Music History II	3.0

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Minor in History

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

Required courses

One of the following history sequences:		9.0
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
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
History electives		15.0
15.0 credits of any additional 200-level or higher HIST courses.		

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:

Required Courses

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

Three HIST or Politics courses in Science or Technology **9.0**

Some examples of HIST or Politics courses in Science or Technology include the following:

HIST 220	History of American Business	3.0
HIST 222	History of Work and Workers in America	3.0
HIST 282	The Scientific Revolution	3.0
HIST 285	Technology in Historical Perspective	3.0
HIST 286	Explorations of Technology and Gender	3.0
HIST 290	Technology and the World Community	3.0
HIST 292	Technology in American Life	3.0
PSCI 331	Environmental Politics	3.0
PSCI 371	Science, Technology, and Public Policy	3.0
PSCI 372	Urban Politics	3.0

Three of the following courses: **9.0**

ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 240	Urban Anthropology	3.0
ANTH 355	Anthropology of Cyberspace	3.0
ENGL 300 WI	Literature and Science	3.0
ENGL 302	Environmental Literature	3.0
PHIL 311	Computer Ethics	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0
SOC 110	Sociology of the Future	3.0
SOC 215	Industrial Sociology	3.0

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 24.0 - 27.0 credits, as follows:

Required courses

One of the following survey courses		3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0
HIST 267	Twentieth-century World I	3.0
HIST 268	Twentieth-century World II	3.0

Two Upper-Level World History courses	6.0
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Some examples of upper-level World History courses are:

HIST 238	The Vietnam War	3.0
HIST 244	20th-century Russia and USSR	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
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

Three International Political Science courses	9.0-10.0
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Some examples of International Political Science courses are:

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 344	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0
PSCI 351	International Organizations	3.0
PSCI 352	Ethics and International Relations	3.0
PSCI 353	International Human Rights	3.0
PSCI 358	Political Economy of Japan	3.0

Two courses, one course each from two of the following areas:	6.0
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Post-Colonial Literature I:

ENGL 203 WI	Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 325	Topics in World Literature	3.0
ECON 340	International Business	4.0
ECON 342	Economic Development	4.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 310	Societies in Transition: The Impact of Modernization and the Third World	3.0
IAS 360	Special Topics World Civilization	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
MUSC 331	World Musics	3.0
	Any appropriate Art History (ARTH) course	3.0

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International Area Studies

The Department of International Area Studies offers a BA in international area studies and minors in international area studies and in eight languages: Arabic, Chinese, French, German, Italian, Japanese, Russian, and Spanish. Courses in a ninth language—Korean—are currently offered at the introductory level, and the Modern Language program plans to develop advanced-level Korean courses in the near future.

International Area Studies (IAS) at Drexel University is an interdisciplinary, intercultural, and interactive major, linking language study with other academic disciplines such as politics, history, economics, sociology, anthropology, literature and philosophy. It provides critical direction in study, research and professional experience necessary to understanding current global trends in politics, sociology and economics. IAS also offers an innovative framework for the preparation of responsible citizens who are aware of larger world issues and local concerns and are able to draw on both the arts and sciences in considering these changes.

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.

Students majoring in the program study one or more languages, and 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.

IAS programs give international area studies students the option of study programs in Brussels, Bonn, Berlin, Madrid, Paris, and London. The programs feature academic internships with national legislatures, the European Parliament, international law firms, nongovernmental service agencies, and multinational corporations. IAS 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.

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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 (BA)

The BA degree provides preparation for entry-level careers in government, public relations, international advertising, and service agencies. The BA 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 BS degree (prior to 2005) may view the former Bachelor of Science requirements in the archived catalog.

Drexel University

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International Area Studies

Bachelor of Arts Degree: 182.0 credits

Global Science, Technology and Society Concentration

Degree requirements (incoming students, 2010/2011)

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	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 190	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 region specific HIS or PSCI courses approved by IAS.		
Global Science, Technology and Society Requirements		39.0 Credits
COM 240	New Technologies in Communication	3.0
ENGL 300 WI	Literature and 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
HIST 290	Technology and the World Community	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
IAS 320	Building Global Bridges	3.0
IAS 360	Special Topics in World Civilization ***	3.0
IAS 390	Special Topics in International Area Studies ***	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 352	Ethics and International Relations	3.0
SOC 225	Sociology of Technology and Aging	3.0
SOC 260 WI	Classical Social Theory	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
SOC 346	Environmental Justice	3.0
SOC 435	Seminar: Organization of American States***	3.0
WRIT 400	Writing in Cyberspace	4.0

*Special topics courses with an international or relevant theme will be considered for course credit upon request and review.

**As appropriate to the major.

***Repeatable for credit.

Electives	11.0-23.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students 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.

Recommended Plan Of Study

BA International Area Studies

5 YR UG Co-op Concentration /Global Science, Tech & Society

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
MATH 102	Introduction to Analysis II	4.0
PHIL 105	Critical Reasoning	3.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 3		Credits
ECON 201	Principles of Microeconomics	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 399	Independent Study in IAS: Global Research Methods	3.0
PSCI 150	International Politics	4.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 4		Credits
ECON 202	Principles of Macroeconomics	4.0
HIST 280	History of Science I	3.0
WMST 240	Women/Society Global Context	3.0
	Language course	4.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 5		Credits
COM 240	New Technologies In Communication	3.0
SOC 235	Sociology of Health	3.0
	Area-specific history course	3.0
	Language course	4.0
	Science elective (See degree requirements)	4.0
	<i>Term Credits</i>	<i>17.0</i>
Term 6		Credits
HIST 285	Technology in Historical Perspective	3.0
	Area-specific history course	3.0
	Concentration distribution course (see degree requirements for list)	3.0
	Ethics elective	3.0
	Language course	4.0
	<i>Term Credits</i>	<i>16.0</i>
Term 7		Credits
HIST 221	Labor in the Age of Technology	3.0
IAS 360	Spec Topics World Civilization	3.0
SOC 345	Sociology of the Environment	3.0
	Concentration distribution course (see degree requirements)	

	for list)	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 8		Credits
ENGL 204	Post-Colonial Lit II	3.0
PHIL 335	Global Ethical Issues	3.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
ENGL 300	Literature & Science	3.0
HIST 286	Exploration in Technology and Gender	3.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
PSCI 371	Science, Technology, & Public Policy	3.0
	Concentration distribution course (see degree requirements for list)	3.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 11		Credits
IAS 359	Culture and Values	3.0
	Concentration distribution course (see degree requirements for list)	3.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 12		Credits
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0

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International Area Studies

Bachelor of Arts Degree: 182.0 credits

International Business and Economics Concentration

Degree requirements (incoming students, 2010/2011)

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	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	Special Topics in World Civilization	3.0
IAS 190	Global Research Methods	3.0
WMST 240	Women and Society in Global Context	3.0

Language Requirements	21.0 - 33.0 Credits
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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
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Students select at least two region specific HIS or PSCI courses approved by IAS.

International Business and Economics Requirements		31.0 Credits
BLAW 340	International Business Law	4.0
ECON 342	Economic Development	4.0
ENGL 360 WI	Literature and Society	3.0
INTB 332 WI	Multinational Corporations	3.0

INTB 334	International Trade	4.0
INTB 338	Regional Studies in Economic Policies and International Business	4.0
PHIL 301	Business Ethics	3.0
SOC 260 WI	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
ENGL 325	Topics in World Literature	3.0
HIST 290	Technology and World Community	3.0
IAS 320	Building Global Bridges	3.0
IAS 360	Special Topics in World Civilization **	3.0.0
IAS 390	Special Topics in International Area Studies **	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 351	International Organizations	3.0.
PSCI 352	Ethics and International Affairs	3.0.
PSCI 357	European Union	3.0.
MKTG 301 WI	Introduction to Marketing Management	5.0
MKTG 322	Advertising and Integrated Marketing Communications	4.0
MKTG 351	Marketing for Non-Profit Organizations	4.0
MKTG 357 WI	Global 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

*Special topics courses with an international or relevant theme will be considered for course credit upon request and review.

**Repeatable for credit.

Electives	6.0-14.0 Credits
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Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year.

Recommended Plan Of Study

BA International Area Studies

5 YR UG Co-op Concentration /International Business & Econ

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
MATH 102	Introduction to Analysis II	4.0
PHIL 105	Critical Reasoning	3.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 3		Credits
ECON 201	Principles of Microeconomics	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 190	Global Research Methods	3.0
PSCI 150	International Politics	4.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 4		Credits
ECON 202	Principles of Macroeconomics	4.0
ENGL 204	Post-Colonial Lit II	3.0
WMST 240	Women/Society Global Context	3.0
	Language course	4.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 5		Credits
	Area-specific history course	3.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	Science elective (See degree requirements)	4.0
	<i>Term Credits</i>	<i>16.0</i>
Term 6		Credits
INTB 334	International Trade	4.0
SOC 260	Classical Social Theory	3.0
	Area-specific history course	3.0
	Ethics elective	3.0
	<i>Term Credits</i>	<i>13.0</i>
Term 7		Credits
ECON 342	Economic Development	4.0
IAS 360	Special Topics World Civilization	3.0
PHIL 301	Business Ethics	3.0
SOC 330	Developing Nations/International Division of Labor	3.0
or		
ANTH 310	Society In Transition: Modern and Third World	3.0

	Language course	3.0
	<i>Term Credits</i>	16.0
Term 8		Credits
BLAW 340	International Business Law	4.0
INTB 332	Multinational Corporations	4.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	17.0
Term 9		Credits
ENGL 360	Literature and Society	3.0
INTB 338	Regional Studies in Economic Policies & International Business	4.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	16.0
Term 10		Credits
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	12.0
Term 11		Credits
IAS 359	Culture and Values	3.0
	Concentration distribution course (see degree requirements for list)	3.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	12.0
Term 12		Credits
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	12.0
	Total Credits (minimum)	182.0

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International Area Studies

Bachelor of Arts Degree: 182.0 credits

Justice and Human Rights Concentration

Degree requirements (incoming students, 2010/2011)

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	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	Special Topics in World Civilization	3.0
IAS 190	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 region specific HIS or PSCI courses approved by IAS.

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 WI	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 352	Ethics and International Affairs	3.0
PSCI 353	International Human Rights	3.0
SOC 260 WI	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 342	Economic Development	4.0
ENGL 360 WI	Literature and Society*	3.0
HIST 290	Technology and World Community	3.0
IAS 360	Special Topics in World Civilization*	3.0
IAS 390	Special Topics in International Area Studies*	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 351	International Organizations	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 344	Social Movements	3.0
SOC 346	Environmental Justice	3.0
WMST 280	Special Topics in Women's Studies***	3.0

*Special topics courses with an international or relevant theme will be considered for course credit upon request and review.

Repeatable for credit. *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 must pass three writing-intensive courses

Recommended Plan Of Study

BA International Area Studies

5 YR UG Co-op Concentration /Justice and Human Rights

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
MATH 102	Introduction to Analysis II	4.0
PHIL 105	Critical Reasoning	3.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 3		Credits
ECON 201	Principles of Microeconomics	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 190	Global Research Methods	3.0
PSCI 150	International Politics	4.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 4		Credits
ECON 202	Principles of Macroeconomics	4.0
ENGL 204	Post-Colonial Literature II	3.0
WMST 240	Women/Society Global Context	3.0
	Language course	4.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 5		Credits
PHIL 241	Social & Political Philosophy	3.0
PSCI 352	Ethics and International Relations	3.0
	Area-specific history course	3.0
	Language course	4.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 6		Credits
PSCI 120	History of Political Thought	4.0
SOC 260	Classical Social Theory	3.0
	Language course	4.0
	Area-specific history course	3.0
	Ethics elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 7		Credits
IAS 360	Special Topics in World Civilization	3.0
PSCI 329	Theories of Justice	3.0
SOC 330	Developing Nations/Intenational Division of Labor	3.0
or		
ANTH 310	Society In Transition: Modern and Third World	3.0

	Concentration distribution course (see degree requirements for list)	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 8		Credits
PHIL 335	Global Ethical Issues	3.0
PSCI 353	International Human Rights	3.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
ANTH 410	Cultural Theory	3.0
ENGL 360	Literature and Society	3.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 11		Credits
IAS 359	Culture and Values	3.0
	Concentration distribution course (see degree requirements for list)	3.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 12		Credits
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0

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International Area Studies

Bachelor of Arts Degree: 182.0 credits

Literature, Culture and the Arts Concentration

Degree requirements (incoming students, 2010/2011)

General Requirements		49.0-52.0 Credits
ANTH 101	Cultural Diversity	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	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	Special Topics in World Civilization	3.0
IAS 190	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 region specific HIS or PSCI courses approved by IAS.		

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
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 360 WI	Literature and Society*	3.0
MUSC 331	World Musics	3.0
PHIL 231	Aesthetics	
	Language course (level 331, 371, 431, or 471)	3.0

*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
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 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 300 WI	Literature and Science	3.0
ENGL 335	Mythology	3.0
ENGL 355 WI	Women in Literature	3.0
ENGL 323	Literature and Other Arts**	3.0
ENGL 325	Topics in World Literature	3.0
IAS 320	Building Global Bridges	3.0
IAS 360	Special Topics in World Civilization ***	3.0
IAS 390	Special Topics in International Area Studies ***	3.0
MUSC 130	Introduction to Music	3.0
NFS 445	Perspectives on World Nutrition	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

*Special topics courses with an international or relevant theme will be considered for course credit upon request and review.

**As appropriate to the major.

***Repeatable for credit.

Electives	11.0-23.0 Credits
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Recommended Plan Of Study

BA International Area Studies

5 YR UG Co-op Concentration /Literature, Culture & Arts

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>15.0</i>
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
MATH 102	Introduction to Analysis II	4.0
PHIL 105	Critical Reasoning	3.0
UNIV 101	The Drexel Experience	1.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 3		Credits
ECON 201	Principles of Microeconomics	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 190	Global Research Methods	3.0
PSCI 150	International Politics	4.0
	Language course	4.0
	<i>Term Credits</i>	<i>18.0</i>
Term 4		Credits
ANTH 212	Topics in World Ethnography	3.0
ECON 202	Economics II	4.0
	Ethics elective	3.0
	Language course	4.0
	Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>17.0</i>
Term 5		Credits
MUSC 331	World Musics	3.0
	Area-specific course (See degree requirements)	3.0
	Language course	4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
	Science elective (See degree requirements)	4.0
	<i>Term Credits</i>	<i>17.0</i>
Term 6		Credits
ENGL 360	Literature and Society	3.0
PHIL 231	Aesthetics	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
or		
ARTH 103	History of Art III: Early Mode	3.0
or		
ARTH 102	History of Art II: Renaissance	3.0
	Language course	4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
	<i>Term Credits</i>	<i>16.0</i>
Term 7		Credits
COM 345	Intercultural Communication	3.0

or		
ANTH 312	Approaches to Intercultural Behavior	3.0
	Area-specific course (See degree requirements)	3.0
	Language course	3.0
	Lit, Culture & Arts distribution courses (See requirements)	6.0
	<i>Term Credits</i>	<i>15.0</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 course	3.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
ENGL 202	Romanticism to Modernism	3.0
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
	Language course	3.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
WMST 240	Women/Society Global Context	3.0
	Free elective	3.0
	Language course	3.0
	Lit, Culture & Arts distribution courses (See requirements)	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 11		Credits
IAS 359	Culture & Values	3.0
	Free elective	3.0
	Language course	3.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
	<i>Term Credits</i>	<i>12.0</i>
Term 12		Credits
	Free elective	3.0
	Language course	3.0
	Lit, Culture & Arts distribution courses (See requirements)	6.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0

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Minor in International Area Studies

The minor requires 24 credits. Language study through level 201 is a prerequisite for the minor.

Prerequisite: completion of Level 201 in a language

Core requirements

IAS 360	Civilization	3.0
WMST 240	Women and Society in a Global Context	3.0
	Students select one region specific HIS or PSCI courses approved by IAS. *	3.0

*Typically an region-specific history course is determined by what language the student is studying.

International Area Studies (IAS) electives 15.0

Students select 15.0 credits of IAS electives, which may include any language courses at level 312 and above and/or any courses listed below:.

AFAS 295	Special Topics in Africana Studies	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 410	Cultural Theory	3.0
BIO 264	Ethnobiology	3.0
BLAW 340	International Business Law	4.0
COM 342	English Worldwide	3.0
COM 345	Intercultural Communication	3.0
COM 355	Ethnography of Communication	3.0
COM 360	International Communication	3.0
COM 361	International Public Relations	3.0
COM 390 WI	Global Journalism	3.0
ECON 342	Economic Development	4.0
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	3.0
ENGL 323	Literature and the Other Arts*	3.0
ENGL 325	Topics in World Literature	3.0
ENGL 360 WI	Literature and Society*	3.0
HIST 290	Technology and the World Community	3.0
IAS 320	Building Global Bridges	3.0
IAS 390	Special Topics in International Area Studies	3.0
INTB 332 WI	Multinational Corporations	4.0

INTB 334	International Trade	4.0
INTB 336	International Money and Finance	4.0
MUSC 331	World Musics	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 446	Perspectives on World Nutrition	3.0
PHIL 335	Global Ethical Issues	3.0
PSCI 120	History of Political Thought	4.0
PSCI 240	Comparative Government	4.0
PSCI 255	International Political Economics	4.0
PSCI 323	Comparative Political Thought	3.0
PSCI 340	Politics of Developing Nations	3.0
PSCI 351	International Organizations	3.0
PSCI 352	Ethics and International Relations	3.0
PSCI 353	International Human Rights	3.0
PSCI 357	European Union	3.0
PSCI 367	International Law	3.0
SOC 220	Wealth and Power	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
SOC 344	Social Movements	3.0
SOC 346	Environmental Justice	3.0
SOC 435	Seminar: Organization of American States	3.0
WMST 280	Special Topics in Women's Studies*	3.0

*These courses must have an international focus.

**Special topics courses with an international or relevant theme will be considered for course credit upon request and review.

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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 BA 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.

Course Descriptions

- Arabic
- Chinese
- French
- German
- Greek
- Hebrew
- Italian
- Japanese
- Korean
- Russian
- Spanish

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 WI; 312 WI; 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; 471WI	Civilization; Advanced Studies in Civilization
399 WI; 499 WI	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 WI	Advanced Independent Study
411 WI	Introduction to Stylistics
431 WI	Introduction to Literature
451	Introduction to Business
FREN 451	Special Studies Advanced Business/Professional French: European Union
RUSS 499 WI	Advanced Seminar in Russian Literature

Mathematics

The Mathematics Department takes pride in offering a balanced and flexible curriculum. Three very different kinds of skills are emphasized in the mathematics major:

1. **Abstract Reasoning**

All students majoring in mathematics take at least five courses that emphasize abstract reasoning. Examples of courses in this category include Abstract Algebra (MATH 331) and Modern Analysis (MATH 401). Students read and write proofs, and graduate well prepared to enter a PhD program in mathematics.

2. **Computing**

All students majoring in mathematics take a series of seven courses that emphasize computing. An example of a course in this category is Numerical Analysis I with Mat lab (MATH 300). This emphasis on computing is one of the distinctive features of the Mathematics Program at Drexel, and provides students with a competitive advantage in the job market.

3. **Mathematical Modeling**

All students majoring in mathematics take multidisciplinary courses that focus on the interplay between mathematics and an area of application. Examples of courses in this category are Mathematical Finance (MATH 449), Cryptography (MATH 475), Mathematics of Medical Imaging (MATH 480) and Actuarial Mathematics (MATH 279).

Students often use electives to focus on an area of personal interest. The Department of Mathematics encourages students to minor in a subject where mathematics is applied. The Department provides an advisor to assist students in selecting electives and planning career paths.

Drexel University

Catalog 2010-11

Mathematics

Bachelor of Arts : 180.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements*		55.0 Credits
COM 230	Public Speaking	3.0
CS 121	Computational Lab I	1.0
CS 122	Computational Lab II	1.0
CS 123	Computational Lab III	1.0
CS 131	Computer Programming A	3.0
CS 132	Computer Programming B	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
Humanities and Fine Arts electives		6.0
International Studies electives		6.0
Science electives		8.0
Social and Behavioral Sciences electives		6.0
Studies in Diversity electives		6.0
Free electives (depending upon other options selected)		64.0 Credits
Free electives		64.0
Core mathematics requirements		27.0 Credits
MATH 121	Calculus I *	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0
MATH 220	Introduction to Mathematical Reasoning	3.0
Additional mathematics requirements		3.0 - 4.0 Credits
MATH 331	Abstract Algebra I	4.0
or		
MATH 401	Elements of Modern Analysis I	3.0

Students complete at least one of the following depth of knowledge

9.0 -

sequences:		11.0 Credits
MATH 221	Discrete Mathematics	3.0
MATH 316	Symbolic Software	3.0
MATH 332	Abstract Algebra II	3.0
or		
MATH 321	Vector Calculus	4.0
MATH 322	Complex Variables	4.0
MATH 402	Elements of Modern Analysis II	3.0
or		
MATH 300	Numerical Analysis I with MATLAB	4.0
MATH 301	Numerical Analysis II	3.0
MATH 305	Optimization Theory	4.0
or		
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0
MATH 318 WI	Statistical Software	3.0
or		
MATH 205	Survey of Geometry	3.0
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0

Students complete Four (4) additional mathematics courses **12.0
Credits**

Students either select these courses from the list of MATH courses in for the BS in Mathematics or from additional mathematics electives, provided that approval is obtained *in advance* from the undergraduate mathematics advisor. The following courses **cannot** be counted toward the BA in Mathematics: MATH 004, 100, 101, 102, 110, 119, 180, 181, 182, 183, and 239.

Students complete three (3) additional courses in fields related to mathematics **9.0
Credits**

Students must complete three additional courses in fields related to mathematics such as science, engineering, economics, finance, decision sciences, and computer science. A list of approved courses will be maintained by the undergraduate mathematics advisor. These three courses are in addition to the two science courses required as part of the General Education requirements, as well as the CS 131-133 required sequence. .

*** Math majors must pass Math 121 with a grade of B or higher.**

*** Categories of Electives:**

Humanities and arts electives

Designated courses in art, art history, communication studies, foreign languages (300-level or above), history, literature, music, philosophy, religion, and theatre arts.

International electives

Designated courses in anthropology, art history, history, literature, music, politics and sociology. Courses with an international focus may be used to fulfill requirements in other categories as well.

Science electives

Students select two courses from chemistry, biology or physics. both courses may be in the same subject or they may be in different subject areas.

Social and behavioral sciences electives

Designated courses in anthropology, economics, criminal justice, international relations, history, politics, psychology and sociology.

Studies in diversity electives

Designated courses in Africana studies, anthropology, communication, English, history, Judaic studies, linguistics, music, sociology and women's studies.

BA Mathematics, 5-Year Co-Op
5 YR UG Co-op Concentration

Recommended Plan Of Study

	Credits
Term 1	
CS 121 Computation Lab I	1.0
CS 131 Computer Programming A	3.0
ENGL 101 Expository Writing and Reading	3.0
MATH 121 Calculus I	4.0
UNIV 101 The Drexel Experience	1.0
Science elective (See degree requirements)	4.0
<i>Term Credits</i>	16.0
Term 2	Credits
CS 122 Computation Lab II	1.0
CS 132 Computer Programming B	3.0
ENGL 102 Persuasive Writing and Reading	3.0
MATH 122 Calculus II	4.0
UNIV 101 The Drexel Experience	1.0
Science elective (See degree requirements)	4.0
<i>Term Credits</i>	16.0
Term 3	Credits
CS 123 Computation Lab III	1.0
ENGL 103 Analytical Writing and Reading	3.0
MATH 123 Calculus III	4.0
MATH 220 Introduction to Mathematical Reasoning	3.0
Social science elective	3.0
<i>Term Credits</i>	14.0
Term 4	Credits
COM 230 Techniques of Speaking	3.0
MATH 200 Multivariate Calculus	4.0
MATH 201 Linear Algebra	4.0
Diversity studies elective	3.0
International studies elective	3.0
<i>Term Credits</i>	17.0
Term 5	Credits
MATH elective from BS in Mathematics requirements (or see degree list)	3.0
Free electives	6.0
Humanities/Fine Arts elective	3.0
Course in a field related to Math (See degree requirements)	3.0
<i>Term Credits</i>	15.0
Term 6	Credits
MATH 210 Differential Equations	4.0
Free elective	3.0
Humanities/Fine Arts elective	3.0
MATH elective from BS in Mathematics requirements (or see degree list)	3.0
Social science elective	3.0
<i>Term Credits</i>	16.0
Term 7	Credits
Diversity studies elective	3.0
Free electives	9.0
MATH course selected from sequence option (see degree	

	requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 8		Credits
MATH 401	Elements of Modern Analysis I	3.0
or		
MATH 331	Abstract Algebra I	4.0
	Free electives	6.0
	International studies elective	3.0
	Course in a field related to Math (See degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
	Free electives	9.0
	Course in a field related to Math (See degree requirements)	3.0
	MATH course selected from sequence option (see degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
	Free electives	12.0
	MATH elective from BS in Mathematics requirements (or see degree list)	4.0
	<i>Term Credits</i>	<i>16.0</i>
Term 11		Credits
	Free electives	10.0
	MATH course selected from sequence option (see degree requirements)	3.0
	<i>Term Credits</i>	<i>13.0</i>
Term 12		Credits
	Free electives	9.0
	MATH elective from BS in Mathematics requirements (or see degree list)	3.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	180.0

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Mathematics

Bachelor of Science Degree: 180.0 credits

Degree requirements (incoming students, 2010/2011)

General education requirements

CS 121	Computational Lab I	1.0
CS 122	Computational Lab II	1.0
CS 123	Computational Lab III	1.0
CS 131	Computer Programming A	3.0
CS 132	Computer Programming B	3.0
BIO	Any Biology course	4.0
CHEM	Any Chemistry course	4.0
PHYS	Any Physics course	4.0
COM 230	Public Speaking	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
	Humanities electives	9.0
	Social sciences electives	18.0
	Free electives	38.0

Mathematics requirements

MATH 121	Calculus I *	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0
MATH 220	Introduction to Mathematical Reasoning	3.0
MATH 221	Discrete Mathematics	3.0
MATH 300	Numerical Analysis I with MATLAB	4.0
MATH 301	Numerical Analysis II	3.0
MATH 305	Optimization Theory	4.0
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0
MATH 316	Symbolic Software	3.0
MATH 318 WI	Statistical Software	3.0
MATH 321	Vector Calculus	4.0
MATH 322	Complex Variables	4.0
MATH 323	Partial Differential Equations	4.0
MATH 331	Abstract Algebra I	4.0
MATH 332	Abstract Algebra II	3.0

MATH 401	Elements of Modern Analysis I	3.0
MATH 402	Elements of Modern Analysis II	3.0

* **Math majors must pass Math 121 with a grade of B or higher.**

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BS Mathematics, 5-Year Co-op
5 YR UG Co-op Concentration

Recommended Plan Of Study

Term 1		Credits
CS 121	Computation Lab I	1.0
CS 131	Computer Programming A	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
	Any biology (BIO) course	4.0
	<i>Term Credits</i>	16.0
Term 2		Credits
CS 122	Computation Lab II	1.0
CS 132	Computer Programming B	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
	Any chemistry (CHEM) course	4.0
	<i>Term Credits</i>	16.0
Term 3		Credits
CS 123	Computation Lab III	1.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
MATH 220	Introduction to Mathematical Reasoning	3.0
	Any physics (PHYS) course	4.0
	<i>Term Credits</i>	15.0
Term 4		Credits
COM 230	Techniques of Speaking	3.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
	Social science electives	6.0
	<i>Term Credits</i>	17.0
Term 5		Credits
MATH 210	Differential Equations	4.0
MATH 221	Discrete Mathematics	3.0
MATH 321	Vector Calculus	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	17.0
Term 6		Credits
MATH 311	Probability and Statistics I	4.0
MATH 331	Abstract Algebra I	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	14.0
Term 7		Credits
MATH 312	Probability and Statistics II	4.0
MATH 332	Abstract Algebra II	3.0
	Free elective	3.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	16.0

Term 8		Credits
MATH 316	Math Applications of Symbolic Software	3.0
MATH 401	Elements of Modern Analysis I	3.0
.	Free electives	6.0
.	Social science elective	3.0
.	<i>Term Credits</i>	15.0
Term 9		Credits
MATH 305	Introduction to Optimization Theory	4.0
MATH 402	Elements of Modern Analysis II	3.0
.	Free electives	6.0
.	<i>Term Credits</i>	13.0
Term 10		Credits
MATH 300	Numerical Analysis I	4.0
MATH 322	Complex Variables	4.0
.	Free electives	6.0
.	<i>Term Credits</i>	14.0
Term 11		Credits
MATH 318	Mathematical Applications of Statistical Software	3.0
MATH 323	Partial Differential Equations	4.0
.	Free electives	6.0
.	<i>Term Credits</i>	13.0
Term 12		Credits
MATH 301	Numerical Analysis II	3.0
.	Free electives	11.0
.	<i>Term Credits</i>	14.0
	Total Credits (minimum)	180.0

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Mathematics

Dual Degree Bachelor's Programs

Since applied mathematics plays an important role in many different disciplines, mathematics majors often choose to pursue specialization in a second field of study. Students may choose a dual major that involves completing the requirements of two separate majors or they can opt for a minor, which involves completing the major in one field and a smaller set of courses in another.

Dual majors are common in mathematics/computer science and mathematics/physics. Students interested in a dual major should consult with their advisor or contact the assistant department head. Dual majors in other fields are also possible, but early planning and discussions with advisors is essential.

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Minor in Mathematics

38.0 credits

The minor in mathematics consists of five required courses and at least 18.0 credits of electives from a specified group of elective courses specified below.

Required Courses

MATH 121	Calculus I *	4.0
MATH 122	Calculus II*	4.0
MATH 123	Calculus III*	4.0
MATH 200	Multivariate Calculus*	4.0
MATH 201	Linear Algebra	4.0
or*		
MATH 261	Linear Algebra	3.0
	Mathematics minor electives (Selected from the list below)	18.0

Mathematics minor electives**

Students additional credits from the following courses for a total of 38.0 credits:

MATH 205	Survey of Geometry	3.0
MATH 210	Differential Equations	4.0
or*		
MATH 262	Differential Equations	3.0
MATH 220	Introduction to Mathematical Reasoning	3.0
MATH 221	Discrete Mathematics	3.0
MATH 235	Math Competition Problem Solving Seminar	.5 - 4.0
MATH 285	Differential Equations II	3.0
MATH 286	Applied Differential Equations	3.0
MATH 291	Complex and Vector Analysis for Engineers †	4.0
MATH 300	Numerical Analysis	4.0
MATH 301	Numerical Analysis II	3.0
MATH 305	Introduction to Optimization Theory	4.0
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0
MATH 316	Mathematical Applications of Symbolic Software	3.0
MATH 318 WI	Mathematical Applications of Statistical Software	3.0
MATH 320	Actuarial Mathematics	3.0
MATH 321	Vector Calculus	4.0
MATH 322	Complex Variables	4.0
MATH 323	Partial Differential Equations	4.0
MATH 331	Abstract Algebra I	4.0
MATH 332	Abstract Algebra II	3.0
MATH 401	Elements of Modern Analysis I	3.0

MATH 402	Elements of Modern Analysis II	3.0
MATH 410	Scientific Data Analysis I	3.0
MATH 411	Scientific Data Analysis II	3.0
MATH 422	Introduction to Topology	4.0
MATH 449	Mathematical Finance	3.0
MATH 450	Introduction to Graph Theory	3.0
MATH 475	Cryptography	3.0

***Students count only one of these two courses for their minor.**

****A request form is available for any other mathematics courses upon the written approval prior to the beginning of the quarter in which the course is to be offered. Students should contact the department's academic advisor, Professor Marna Mozeff for further information. Professor Mozeff can be reached at 215.895.6691 or marna.a.mozeff@drexel.edu.**

† Students who take MATH 291 cannot also count MATH 321 or MATH 322 toward their minor.

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Philosophy

Philosophy is the oldest of all disciplines, dating back to a time before universities. Whether dealing with the nature of knowledge and reality, questions pertaining to moral right and wrong, or with methods of reasoning and analysis, the questions and concerns of philosophy inform all other disciplines and professions, as well as everyday life. Given its longevity, breadth, and rigor, it should not be surprising that the study of philosophy is widely considered as among the most challenging academic programs.

About the Major

The Philosophy major at Drexel provides a strong connection with all fields of knowledge and professions. Many of the courses study assumptions made in the arts, sciences, and technologies, while others investigate ethical issues in the professions. In this sense, the philosophy major uses the other disciplines and professions as subject-matter, and encourages students to supplement and broaden their philosophical studies by choosing from among the more than 80 minor programs of study at the University. For the more ambitious student, a carefully planned use of the Philosophy major's 48 credit hours of free electives will allow the pursuit of a double major, in philosophy and biology, or philosophy and economics, for example.

Instruction in philosophy begins with lecture courses that introduce the several branches of philosophy (metaphysics, epistemology, ethics, etc.). Class size is limited to 25 students. Beginning in the third year, students take seminar classes (limited to 12 students) in which advanced study of philosophical subject areas is pursued. These seminars are discussion oriented, reading- and writing-intensive, and grant students much greater responsibility for learning from peers. In the senior year, students conclude their studies by pursuing a year-long research and writing project, culminating in the defense of an argumentative essay before the philosophy faculty and fellow philosophy majors. This year-long project consists of three one-on-one tutorials.

The Philosophy major will serve the serious student who seeks employment in industry and business (employers have noted a strong interest in graduates trained in careful conceptual and logical analysis), as well as the student who intends to apply to graduate or professional schools. Besides familiarity with professional issues, philosophy majors score consistently higher on Graduate Record Examinations (GREs) and other professional school placement exams (LSATs, GMATs) than students trained in most other fields.

For more information about the Philosophy major, visit the Department of English and Philosophy page.

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Philosophy

Bachelor of Arts Degree: 182.0 - 187.0 credits

Required courses (incoming students, 2010/2011)

College of Arts and Sciences Requirements		71.0 - 76.0 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
CHEM 201	Why Things Work: Everyday Chemistry	4.0
MATH 101	Introduction to Analysis I*	4.0
MATH 102	Introduction to Analysis II**	4.0
PHIL 101	Introduction to Western Philosophy	3.0
or		
PHIL 102	Introduction to Eastern Philosophy	3.0
PHIL 105	Critical Reasoning	3.0
PHYS 135	How Things Work	3.0
UNIV 101	The Drexel Experience	3.0
Two studies in diversity electives		6.0
Two international studies electives		6.0 - 8.0
Four social and behavioral sciences electives		12.0-16.0

*Credit will be granted to students who achieve Advanced Placement (AP) in relevant mathematical disciplines. On the other hand, Students unprepared for MATH 101 should take MATH 100 Fundamentals of Mathematics.

**Students who took MATH 100 in Term 1 must take MATH 101 in Term 2, and MATH 102 in Term 3 or Term 4.

Students select two of the following:

ARTH 101	History of Art I: Ancient to Medieval	3.0
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

Language Requirement

201 language course***	4.0
202 language course	4.0

***Presupposes a level of success in the placement examination warranting enrollment at this language level. Students are encouraged to pursue language instruction in "the languages of Western Philosophy;" thus, French, German, Italian and Spanish would be recommended. ("Classical" Greek and Latin are not taught at Drexel University.) However, pursuit of proficiency in languages other than those recommended would not be discouraged. Credit will be granted to students who achieve Advanced Placement (AP) in a language.

Major Requirements		63.0 Credits
COM 230	Techniques of Speaking	3.0
PHIL 111	Propositional (Zero-Order) Logic	3.0

PHIL 201	History of Philosophy I	3.0
PHIL 202	History of Philosophy II	3.0
PHIL 203	History of Philosophy III	3.0
PHIL 207	Predicate (First-Order) Logic	3.0
PHIL 211	Metaphysics	3.0
PHIL 221	Epistemology	3.0
PHIL 231	Aesthetics	3.0
PHIL 251	Ethics	3.0
PHIL 361	Philosophy of Science	3.0
PHIL 431 WI	Seminar in Rationalism and Empiricism	3.0
PHIL 481 WI	Seminar in a Philosophical School‡	3.0
PHIL 485 WI	Seminar in a Major Philosopher‡	3.0
PHIL 497 WI	Senior Project I: Research and Thesis Formulation	3.0
PHIL 498 WI	Senior Project II: Argument Construction	3.0
PHIL 499 WI	Senior Project III: Criticism, Defense & Replies	3.0

‡This course may be repeated for credit.

One of the following courses:

PHIL 371	Philosophy of the Social Sciences	3.0
PHIL 391	Philosophy of Religion	3.0

One of the following courses:

PHIL 425 WI	Seminar in Medieval Philosophy	3.0
PHIL 421 Wi	Seminar in Ancient Philosophy	3.0

One of the following courses:

PHIL 461 WI	Seminar in Contemporary Philosophy	3.0
PHIL 465 WI	Seminar in American Philosophy	3.0

One of the following Professional Ethics electives:

PHIL 301	Business Ethics	3.0
PHIL 305	Communication Ethics	3.0
PHIL 311	Computer Ethics	3.0
PHIL 315	Engineering Ethics	3.0
PHIL 321	Biomedical Ethics	3.0
PHIL 323	Organizational Ethics	3.0
PHIL 325	Ethics in Sport Management	3.0

Electives	48.0 Credits
Free electives	48.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA Philosophy
5 YR UG Co-op Concentration

Recommended Plan Of Study

	Credits
Term 1	
ENGL 101 Expository Writing and Reading	3.0
MATH 101 Introduction to Analysis I	4.0
UNIV 101 The Drexel Experience	1.0
PHIL 102 Introduction to Eastern Philosophy	3.0
or	
PHIL 101 Introduction to Western Philosophy	3.0
Language 201 (See degree requirements for note about language options)	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 2	Credits
ENGL 102 Persuasive Writing and Reading	3.0
MATH 102 Introduction to Analysis II	4.0
PHIL 105 Critical Reasoning	3.0
UNIV 101 The Drexel Experience	2.0
Language 202	4.0
<i>Term Credits</i>	<i>16.0</i>
Term 3	Credits
CHEM 201 Why Things Work: Everyday Chemistry	3.0
ENGL 103 Analytical Writing and Reading	3.0
PHIL 111 Propositional (zero-order) Logic	3.0
PHIL 251 Ethics	3.0
Social science elective	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 4	Credits
PHIL 201 History of Western Philosophy I	3.0
PHIL 207 Predicate (first-order) Logic	3.0
ARTH 102 History of Art II: High Renaissance to Modern	3.0
or	
ARTH 101 History of Art I: Ancient to Medieval	3.0
Diversity studies elective	3.0
Social science elective	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 5	Credits
PHIL 202 History of Western Philosophy II	3.0
PHIL 211 Metaphysics	3.0
PHYS 135 How Things Work	4.0
ARTH 103 History of Art- Early to Late Modern	3.0
or	
ARTH 102 History of Art II: High Renaissance to Modern	3.0
Diversity studies elective	3.0
<i>Term Credits</i>	<i>16.0</i>
Term 6	Credits
COM 230 Techniques of Speaking	3.0
PHIL 203 History of Western Philosophy III	3.0
PHIL 221 Epistemology	3.0
Free elective	3.0
Social science elective	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>

Term 7		Credits
PHIL 231	Aesthetics	3.0
	Free electives	6.0
	Professional ethics elective (See Degree requirements for list of options.)	3.0
	Social science elective	3.0-4.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 8		Credits
PHIL 361	Philosophy of Science	3.0
PHIL 481	Seminar in a Philosophical School or Movement	3.0
	Free electives	6.0
	International studies elective	3.0-4.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 9		Credits
PHIL 485	Seminar in a Major Philosopher	3.0
PHIL 391	Philosophy of Religion	3.0
or		
PHIL 371	Philosophy of Social Sciences	3.0
	Free electives	6.0
	International studies elective	3.0-4.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 10		Credits
PHIL 497	Senior Essay I: Research & Thesis	3.0
PHIL 425	Seminar in Medieval Philosophy	3.0
or		
PHIL 421	Seminar in Ancient Philosophy	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
PHIL 431	Seminar in Rationalism & Empiricism	3.0
PHIL 498	Senior Essay II: Argument Construction	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
Term 12		Credits
PHIL 499	Senior Essay III: Defense	3.0
PHIL 465	Seminar in American Philosophy	3.0
or		
PHIL 461	Seminar in Contemporary Philosophy	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
	Total Credits (minimum)	182.0-188.0

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Minor in Philosophy

24.0 credits

The Minor in Philosophy combines the rigor of traditional philosophical inquiry with an interest in practical problems. The emphasis, both in the structure of the course requirements and in content, is on a critical concern with contemporary issues in determining solutions. This focus serves Drexel University's mission of providing practical professional instruction. It also serves 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 perform better on graduate school entrance examinations than most other undergraduates.

Students who have completed 30 credit hours at Drexel University may apply for the Minor in Philosophy by completing the "Declaration of Minor" form available online from the Student Resources Center web page.

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

Required Courses

PHIL 101	Introduction to Western Philosophy	3.0
PHIL 211	Metaphysics	3.0
PHIL 221	Epistemology	3.0
PHIL 251	Ethics	3.0

One of the following courses:

PHIL 105	Critical Reasoning	3.0
PHIL 111	Propositional (Zero-Order) Logic	3.0

One of the following courses:

PHIL 301	Business Ethics	3.0
PHIL 305	Communication Ethics	3.0
PHIL 311	Computer Ethics	3.0
PHIL 315	Engineering Ethics	3.0
PHIL 321	Biomedical Ethics	3.0

One of the following courses:

PHIL 231	Aesthetics	3.0
PHIL 241	Social and Political Philosophy	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 355	Philosophy of Medicine	3.0
PHIL 361	Philosophy of Science	3.0
PHIL 371	Philosophy of the Social Sciences	3.0

PHIL 381 WI	Philosophy in Literature	3.0
PHIL 385	Philosophy of Law	3.0
PHIL 391	Philosophy of Religion	3.0

One of the following courses

PHIL 421 WI	Seminar in Ancient Philosophy	3.0
PHIL 425 WI	Seminar in Medieval Philosophy	3.0
PHIL 431 WI	Seminar in Rationalism and Empiricism	3.0
PHIL 461 WI	Seminar in Contemporary Philosophy	3.0

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Philosophy in the Arts & Humanities Certificate

18.0 credits

This certificate program, open to all students, entails completion of college-level study of philosophical themes, problems and questions in the arts and humanities. The Philosophy in the Arts & Humanities (PHAH) Certificate provides an alternative to undergraduates who are majoring in programs that do not include sufficient free electives to allow for a minor in philosophy, or to other undergraduates wishing to give themselves an interesting advantage in seeking employment.

Required Courses		18.0 Credits
PHIL 101	Introduction to Western Philosophy	3.0
PHIL 105	Critical Reasoning	3.0
PHIL 107	Philosophy and Knowledge Organization	3.0
PHIL 231	Aesthetics	3.0
PHIL 381 WI	Philosophy in Literature	3.0

One of the following courses:

PHIL 385	Philosophy of Law	3.0
PHIL 391	Philosophy of Religion	3.0

Philosophy in Science and Technology Certificate

18.0 credits

This certificate program, open to all students, entails completion of college-level study of philosophical themes, problems and questions in the sciences and technologies. The Philosophy in Science and Technology (PHST) Certificate provides an alternative to undergraduates who are majoring in programs that do not include sufficient free electives to allow for a minor in philosophy, or to other undergraduates wishing to give themselves an interesting advantage in seeking employment.

Required Courses		18.0 Credits
PHIL 101	Introduction to Western Philosophy	3.0
PHIL 105	Critical Reasoning	3.0
PHIL 107	Philosophy and Knowledge Organization	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 355	Philosophy of Medicine	3.0

One of the following courses:

PHIL 361	Philosophy of Science	3.0
PHIL 371	Philosophy of the Social Sciences	3.0

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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 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 conducts a broad array of outreach activities including the Kaczmarczik Lecture Series, public observing nights at the Lynch Observatory, and demonstrations in grade school performed by the Drexel Chapter of the Society of Physics Students (SPS).

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Physics

Bachelor of Science Degree: minimum of 185.0 credits

Required courses (incoming students, 2010/2011)

General education requirements

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
	Technical elective	3.0
	Liberal studies electives*	9.0
	Business electives	8.0
	Free electives	12.0

*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 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	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
MATH 210	Differential Equations	4.0

Chemistry requirements

CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
BIO 122	Cells and Genetics	4.5
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 160	Introduction to Scientific Computing	3.0
PHYS 217	Thermodynamics	4.0
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 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 408	Physics Seminar*	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

The Physics 408 course is registered for 1.0 credits each term, but must be taken three times for a total of 3.0 credits.

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), 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 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.

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*

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**	1.0

*Physics 101/102/201 or 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.

Minor in Physics

Physics is a science that studies the natural phenomena at all scales, from that of the universe to elementary particles. This minor exposes the students to some of the basic principles of physics and would easily complement any other discipline—from engineering to other sciences.

The Minor in Physics requires a total of 10 credits from the elective list, in addition to the prerequisite and core courses.

Required Courses

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	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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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.

Combined Bachelors/Masters Degree

There is an accelerated MS program entitled the Psychology BS /MS Scholars Program to which undergraduates may apply. For more information, visit the Drexel University Department of Psychology homepage.

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Psychology

Bachelor of Science Degree: 182.0 credits

Required courses (incoming students, 2010/2011)

College/University requirements

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 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0

or

CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5

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

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 requirements, plus an additional 100-level elective.

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 WI	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	Evolutionary Psychology	3.0
PSY 213	Sensation and Perception	3.0
PSY 225	Child Psychopathology	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 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

Senior seminar sequence*

PSY 490 WI	Psychology Senior Thesis I*	4.0
PSY 491 WI	Psychology Senior Thesis II*	4.0
PSY 492 WI	Psychology Senior Thesis 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 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.

BS Psychology
5 YR UG Co-op Concentration

Recommended Plan Of Study

		Credits
Term 1		
ENGL 101	Expository Writing and Reading	3.0
PSY 111	Preprofessional Psychology I	3.0
UNIV 101	The Drexel Experience	2.0
MATH 121	Calculus I	4.0
or		
MATH 101	Introduction to Math Analysis I	4.0
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
or		
BIO 107	Cells, Genetics & Physiology and BIO108 Lab	4.0
	<i>Term Credits</i>	15.5
Term 2		
ENGL 102	Persuasive Writing and Reading	3.0
PSY 112	Preprofessional Psychology II	3.0
BIO 109	Biological Diversity, Ecology & Evolution and BIO 110 Lab	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 122	Calculus 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>	17.0
Term 3		
ENGL 103	Analytical Writing and Reading	3.0
PSY 240	Abnormal Psychology	3.0
PSY 120	Developmental Psychology	3.0
or		
PSY 150	Introduction to Social Psychology	3.0
or		
PSY 140	Approaches to Personality	3.0
	Fine arts elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
	<i>Term Credits</i>	15.0
Term 4		
PSCI 100	Introduction to Political Science	4.0
ENGL 200	Classical to Medieval Literature	3.0
or		
ENGL 202	Romanticism to Modernism	3.0
or		
ENGL 201	Renaissance to the Enlightenment	3.0
	Advanced Psychology courses (See degree requirements list)	6.0
	Sociology/Anthropology elective (SOC or ANTH)	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
ENGL 203	Post-Colonial Literature I	3.0
or		
ENGL 204	Post-Colonial Literature II	3.0
PSY 212	Physiological Psychology	3.0
or		
PSY 230	Psychology of Learning	3.0
	Philosophy (PHIL) elective	3.0
	Term Credits	18.0
Term 6		Credits
PSY 360	Experimental Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 230	Psychology of Learning	3.0
or		
PSY 212	Physiological Psychology	3.0
	Economics (ECON) elective	4.0
	Term Credits	16.0
Term 7		Credits
PSY 365	Computer-Assisted Data Analysis II	3.0
	Free electives	9.0
	History elective	3.0
	Term Credits	15.0
Term 8		Credits
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	12.0
	History elective	3.0
	Term Credits	18.0
Term 9		Credits
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	9.0
	Term Credits	12.0
Term 10		Credits
PSY 401	History and Systems	3.0
	Free electives	6.0
	PSY 490 Senior Thesis I or adv. PSY elective (If electives are chosen, 12.0 credits in total are required.)	4.0
	Term Credits	13.0
Term 11		Credits
	Free electives	9.0
	PSY 491 Senior Thesis II or adv. PSY elective (If electives are chosen, 12.0 credits in total are required.)	4.0
	Term Credits	13.0
Term 12		Credits
	Free electives	9.0
	PSY 492 Senior Thesis III or adv. PSY elective (If electives are chosen, 12.0 credits in total are required.)	4.0
	Term Credits	13.0
	Total Credits (minimum)	181.5

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

General Psychology course (PSY 101 or equivalent)	3.0
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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 WI	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
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
PSY 350	Advanced Social Psychology	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

	General Psychology course (PSY 101 or equivalent)	3.0
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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	Evolutionary 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 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 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 WI	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

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Political Science

The Department of History & Politics offers programs in both disciplines to provide students with the essential elements of liberal learning. The Political Science program helps students cultivate perspective, develop critical thinking and communication skills, and understand the economic, social, and political systems within which we live and work.

Degrees Offered

The Department offers both a Bachelor of Science (BS) and a Bachelor of Arts (BA) in Political Science. 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 prefer specific course requirements, including sequences in mathematics and the natural sciences.

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

Whether they are preparing to enter law school, the business world, or graduate school, students can shape a curriculum that meets their needs.

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Political Science

Bachelor of Arts Degree: 182.0 credits

Required courses (incoming students, 2010/2011)

General education requirements		68.0 - 72.0 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	3.0
Two math courses		6.0-8.0
Two science courses*		6.0-8.0

*Any Biology (BIO), Chemistry (CHEM), Nutrition (NFS), Physics (PHYS) or Environmental Science (ENVS) course.

Foundation requirements

Two studies in diversity electives		6.0
Two consecutive foreign language courses (must complete level 201)		8.0
Four humanities/fine arts electives		12.0
Four social science electives		12.0
Two international studies electives		6.0

Core Political Science Requirements

Core Political Science Requirements		49.0 Credits
PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
PSCI 150	International Politics	4.0
PSCI 211	American Government II	4.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 230	Research Methods in Political Science II	4.0
PSCI 240	Comparative Government	3.0
PSCI 250	American Foreign Policy	3.0
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
History Electives*		9.0

* Only 200-level and above HIST courses will fulfill this requirement.

Political Science Electives*

* Only 300-level and above PSCI courses will fulfill this this requirement.

Free Electives	32.0 - 36.0 Credits
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BA Political Science
4 YR UG Co-op Concentration

Recommended Plan Of Study

	Credits
Term 1	
ENGL 101 Expository Writing and Reading	3.0
PSCI 110 American Government I	4.0
PSCI 150 International Politics	4.0
UNIV 101 The Drexel Experience	1.0
Foreign language course (103-level or higher)	4.0
<i>Term Credits</i>	16.0
Term 2	
ENGL 102 Persuasive Writing and Reading	3.0
PSCI 140 Intro Comp Political Analysis	4.0
UNIV 101 The Drexel Experience	2.0
Foreign language course (201-level or higher)	4.0
Mathematics course	3.0-4.0
<i>Term Credits</i>	16.0-17.0
Term 3	
ENGL 103 Analytical Writing and Reading	3.0
PSCI 120 History of Political Thought	4.0
PSCI 130 Research Methods in Political Science I	4.0
Free elective	3.0-4.0
Mathematics course	3.0-4.0
<i>Term Credits</i>	17.0-19.0
Term 4	
Diversity studies elective	3.0
History elective (200-level and above HIST course)	3.0
Humanities/Fine Arts elective	3.0
Science elective (See degree requirements)	3.0-4.0
Social and Behavioral Sciences electives	6.0
<i>Term Credits</i>	18.0-19.0
Term 5	
PSCI 240 Comparative Government	3.0
History elective (200-level and above HIST course)	3.0
Humanities/Fine Arts elective	3.0
Political Science elective (300-level and above PSCI course)	3.0
Science elective (See degree requirements)	3.0
<i>Term Credits</i>	15.0
Term 6	
PSCI 211 American Government II	4.0
Diversity studies elective	3.0
History elective (200-level and above HIST course)	3.0
International studies elective	3.0
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	16.0
Term 7	
PSCI 220 Constitutional Law I: Separation of Powers	3.0
PSCI 230 Research Methods in Political Science II	4.0
Free elective	3.0
Humanities/Fine Arts elective	3.0
International studies elective	3.0
<i>Term Credits</i>	16.0

Term 8		Credits
PSCI 250	American Foreign Policy	3.0
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
Term 9		Credits
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
	Free electives	5.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	<i>14.0</i>
Term 10		Credits
	Free electives	9.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	<i>12.0</i>
Term 12		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	182.0-186.0

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Political Science

Bachelor of Science Degree: 182.0 credits

Required courses (incoming students, 2010/2011)

General education requirements		64.0 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	3.0
Any 8-credit math sequence*		8.0
Any 8-credit science sequence**		8.0

*** Sample Math sequences: 8.0**

Additional math sequence options are available. Students should check with the Department.

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

****Sample Science sequences: 8.0**

Additional science sequence options are available. Check with the Department.

BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
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

Literature

Nonwestern literature requirement:

One of the following courses: 3.0

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	3.0

Western literature requirement:

One of the following courses:		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 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

Additional general requirements

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	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	4.0
MUSC 130	Introduction to Music	3.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
PHIL 105	Critical Reasoning	3.0
STAT	Any 4-credit statistics course	4.0

Core Political Science Requirements

49.0 Credits

PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
PSCI 150	International Politics	4.0
PSCI 211	American Government II	4.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 230	Research Methods in Political Science II	4.0
PSCI 240	Comparative Government	3.0
PSCI 250	American Foreign Policy	3.0
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
History Electives*		9.0

* Only 200-level and above HIST courses will fulfill this requirement.

Political Science Electives**

30.0 Credits

** Only 300-level and above PSCI courses will fulfill this requirement.

Free Electives

39.0 Credits

BS Political Science
4 YR UG Co-op Concentration

Recommended Plan Of Study

		Credits
Term 1		
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
PSCI 110	American Government I	4.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	<i>Term Credits</i>	16.0
Term 2		
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
PSCI 140	Intro Comp Political Analysis	4.0
UNIV 101	The Drexel Experience	2.0
	<i>Term Credits</i>	16.0
Term 3		
ENGL 103	Analytical Writing and Reading	3.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	4.0
PSY 101	General Psychology I	3.0
	<i>Term Credits</i>	14.0
Term 4		
MUSC 130	Introduction to Music	3.0
SOC 101	Introduction to Sociology	3.0
	History elective (200-level and above HIST course)	3.0
	Science sequence course 1 (See degree requirements list)	4.0
	Western literature survey course (see degree requirements for list of options)	3.0
	<i>Term Credits</i>	16.0
Term 5		
PSCI 240	Comparative Government	3.0
ENGL 204	Post-Colonial Literature II	3.0
or		
ENGL 203	Post-Colonial Literature I	3.0
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Science sequence course 2 (See degree requirements list)	4.0
	<i>Term Credits</i>	16.0
Term 6		
ECON 201	Principles of Microeconomics	4.0
PSCI 211	American Government II	4.0
ANTH 110	The Human Past	3.0
or		
ANTH 101	Introduction to Cultural Diversity	3.0
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	<i>Term Credits</i>	17.0
Term 7		
ECON 202	Principles of Macroeconomics	4.0
PHIL 105	Critical Reasoning	3.0

PSCI 220	Constitutional Law I	3.0
PSCI 230	Research Methods in Political Science II	4.0
	Statistics elective	4.0
	<i>Term Credits</i>	18.0
Term 8		Credits
PSCI 250	American Foreign Policy	3.0
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	15.0
Term 9		Credits
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	15.0
Term 10		Credits
	Free electives	9.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	15.0
Term 11		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	12.0
Term 12		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<i>Term Credits</i>	12.0
	Total Credits (minimum)	182.0

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Minor in Politics

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

Required courses

Three of the following 4-credit survey courses:		12.0
PSCI 100	Introduction to Political Science	4.0
PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
PSCI 150	International Politics	4.0
Political Science electives		12.0
12.0 credits of any additional 200-level or higher PSCI courses.		

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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 while promoting social justice. Students play a central role in this approach. They go out into the community to acquire hands-on experience relating to their classroom work.

For more information about the Sociology major, visit the Department of Culture and Communication's Sociology page.

Drexel University

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Sociology

Bachelor of Arts Degree: 182.0 credits

Required courses (incoming students, 2010/2011)

General Requirements		68.0 - 80.0 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	3.0
	Two Mathematics courses	6.0-8.0
	Two Science courses	6.0-8.0

Foreign Language

A minimum of two consecutive foreign language* courses	8.0- 16.0
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* At least one foreign language course must be at the 200-level. In addition, the department recommends students take 2 additional foreign language courses as free electives.

Humanities and Fine Arts

Four Humanities/Fine Arts courses	12.0
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Social and Behavioral Sciences

COM 150	Mass Media and Society	3.0
SOC 101	Introduction to Sociology	3.0
	Two additional Social and Behavioral Sciences courses	6.0

International Studies

Two International Studies courses	6.0
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Studies in Diversity

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
	One additional Studies in Diversity course	3.0

Sociology Core Requirements	57.0 - 60.0 Credits
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ANTH 370	Ethnographic Methods	3.0
SOC 395	Seminar in Sociology	12.0- 15.0
SOC 470 WI	Social Change and Social Planning	3.0

Theory Sequence

COM 210	Theory and Models of Communication	3.0
SOC 260 WI	Classical Social Theory	3.0
ANTH 410	Cultural Theory	3.0
SOC 460 WI	Contemporary Social Theory	3.0

Methods Sequence

COM 220	Qualitative Research Methods	3.0
SOC 250	Research Methods	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0

Writing Communications

Students select a minimum of two courses from the following:

COM 230	Techniques of Speaking	3.0
COM 270 WI	Business Communication	3.0
COM 280	Public Relations	3.0
COM 375 WI	Grant Writing	3.0

Students select four of the following core courses:

SOC 210	Race and Ethnic Relations	3.0
SOC 220	Wealth and Power	3.0
SOC 240	Urban Sociology	3.0
SOC 320	Sociology of Deviant Behavior	3.0
SOC 330	Developing Nations	3.0

Other Program Requirements

**30.0
Credits**

Students select a minimum of 30.0 credits from the following courses:

ANTH 110	The Human Past	3.0
ANTH 120	Biblical Archaeology	3.0
ANTH 212	Topics on World Ethnography	3.0
ANTH 220	Aging in Cross-Cultural Perspective	3.0
ANTH 310	Societies in Transition	3.0
ANTH 312	Approaches to Intercultural Behavior	3.0
ANTH 380	Special Topics in Anthropology	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 Aging	3.0
SOC 215	Industrial Sociology	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 270	Theory of Applied and Community Sociology	3.0
SOC 310	Topics in Political Sociology	3.0
SOC 335	Sociology of Education I	3.0
SOC 350	Research Methods II	3.0
SOC 370	Practicum in Applied and Community Sociology	3.0-9.0
CJ 360	Juvenile Justice	3.0
SOC 365	Computer-Assisted Data Analysis II	3.0
SOC 380	Special Topics in Sociology	1.0 - 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
PSY 150	Introduction to Social Psychology	3.0
PSY 252	Death and Dying	3.0
PSY 350	Advanced Social Psychology	3.0
UNIV 380	Special Topics: University-Wide	2.0 - 3.0
Free Electives		18.0- 27.0 Credits
Free electives		30.0- 35.0

Writing-Intensive Course Requirements

In order to graduate, all students 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.

BA Sociology
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Recommended Plan Of Study

	Credits
Term 1	
ENGL 101 Expository Writing and Reading	3.0
SOC 101 Introduction to Sociology	3.0
SOC 395 Seminar in Sociology	3.0
UNIV 101 The Drexel Experience	1.0
Foreign language course	4.0
Mathematics course	3.0-4.0
<i>Term Credits</i>	<i>17.0-18.0</i>
Term 2	
COM 150 Mass Media and Society	3.0
ENGL 102 Persuasive Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Foreign language course	4.0
Mathematics course	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 3	
ANTH 101 Introduction to Cultural Diversity	3.0
ENGL 103 Analytical Writing and Reading	3.0
SOC 260 Classical Social Theory	3.0
Foreign language course	4.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>16.0-17.0</i>
Term 4	
COM 220 Qualitative Research Methods	3.0
SOC 250 Research Methods I	3.0
SOC 395 Seminar in Sociology	3.0
Foreign language course	4.0
Sociology core course (See degree requirements)	3.0
<i>Term Credits</i>	<i>16.0</i>
Term 5	
ANTH 370 Ethnographic Methods	3.0
COM 210 Theory and Models of Communication	3.0
Free elective	3.0
Sociology core course (See degree requirements)	3.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 6	
SOC 364 Computer-Assisted Data Analysis	3.0
Diversity studies elective	3.0
Other program requirement (See degree requirements list)	3.0
Social and Behavioral Sciences elective	3.0
Writing/Communication elective (See approved course list)	3.0
<i>Term Credits</i>	<i>15.0</i>
Term 7	
SOC 470 Social Change & Planning	3.0
Sociology core course (See degree requirements)	3.0
Other program requirement (See degree requirements list)	3.0
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	<i>12.0</i>

Term 8		Credits
SOC 395	Seminar in Sociology	3.0
	Free elective	3.0
	Sociology core courses (See degree requirements)	6.0
	Other program requirement (See degree requirements list)	3.0
	Writing/Communication elective (See approved course list)	3.0
	<i>Term Credits</i>	<i>18.0</i>
Term 9		Credits
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	Other program requirements (See degree requirements list)	6.0
	<i>Term Credits</i>	<i>15.0</i>
Term 10		Credits
ANTH 410	Cultural Theory	3.0
SOC 395	Seminar in Sociology	3.0
	Humanities/Fine Arts elective	3.0
	Other program requirements (See degree requirements list)	6.0
	<i>Term Credits</i>	<i>15.0</i>
Term 11		Credits
SOC 460	Contemporary Social Theory	3.0
	Free elective	3.0-4.0
	International studies elective	3.0
	Other program requirements (See degree requirements list)	6.0
	<i>Term Credits</i>	<i>15.0-16.0</i>
Term 12		Credits
	Humanities/Fine Arts electives	6.0
	Sociology core course (See degree requirements)	3.0
	Other program requirement (See degree requirements list)	3.0
	<i>Term Credits</i>	<i>12.0</i>
	Total Credits (minimum)	181.0-186.0

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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

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 Aging	3.0
SOC 205	Criminology and Criminal 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	Sociology of Technology and Aging	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	Globalization	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 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 interested in business, the sciences, engineering, government, and social services to present to prospective employers a unique academic background.

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

Required courses

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

Students take an additional 18.0 credits including—but not limited to— the following courses. (Students must check with the Program Director for approval prior to making substitutions.)

AFAS 250	African American Herstories	3.0
AFAS 295	Special Topics in Africana Studies	3.0
AFAS 401	Urban Social Justice Practicum I	3.0
AFAS 402	Urban Social Justice Practicum II	3.0
AFAS 301	Politics of Hip Hop	3.0
AFAS 395	Special Topics in Africana Studies	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 216	Freedom in America	3.0
HIST 215	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 and Third World Politics	3.0
PSCI 372	City in 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

Minor in Greek Studies

The minor in Greek Studies is designed to be interdisciplinary, with concentration on Mediterranean issues, focusing on and starting from the island of Crete. The minor consists of a minimum of 24 credits, 17 of which are elective courses chosen with a focus on Greek Studies. Because the scope of the minor embraces Hellenism from antiquity to today, students may select their electives depending on the aspect of Greek studies they desire to focus on (for example, mythology, philosophy, performance).

Required courses		7.0 Credits
	Greek language course (GREC 101, GREC 102 or GREC 103)	4.0
ANTH 212	Anthropology of the Mediterranean	3.0
or		
GREC 212	Greek Folklore	

Greek studies electives		17.0 Credits
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Students select a minimum of 17.0 credits from the following courses:

ANTH 212	Anthropology of the Mediterranean*	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
ENGL 200 WI	Classical to Medieval Literature	3.0
ENGL 325	Topics in World Literature (if Greek Literature is the topic)	3.0
ENGL 335	Mythology	3.0
GREC 101	Modern Elementary Greek I*	4.0
GREC 102	Modern Elementary Greek II*	4.0
GREC 103	Modern Elementary Greek III*	4.0
GREC 212	Greek Folklore*	3.0
GREC 225	Greek Music and Dance	3.0
GREC 380	Special Topics in Greek Studies	variable
GREC 399	Independent Study in Greek	variable
HIST 280	History of Science I	3.0
INTB 338 WI	Regional Studies in International Business and Economic Policy**	4.0
MUSC 380	Special Topics in Music (when offered as Mediterranean Ensemble)	1.0
PHIL 201	History of Western Philosophy I	3.0

Drexel in Crete Study Abroad Program course offerings:

ANTH 380	Special Studies in Anthropology: Crete Through the Looking Glass	3.0
LANG 180	Special Topics in Languages: Communicate in Greek: Philoxenia	3.0

IAS 360	Special Topics in World Civilization: Cretan Civilization: Unraveling Ariadne's Thread	3.0
GREC 380	Special Topics in Greek Studies: Greek and Cretan History, Economy and Society	3.0

* Students may only select this course as a Greek Studies elective if it was not already chosen as fulfilling one of the required course options.

** Students may only select this course as a Greek Study elective if it is being offered as Mediterranean Economy.

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		9.0
JUDA 201	Jewish Literature and Civilization*	3.0
JUDA 202	Jewish Life and Culture in the Middle Ages**	3.0
JUDA 203	Modern Jewish History***	3.0

* Offered concurrently with ENGL 350 Jewish Literature and Civilization. ** Offered concurrently with HIST 253 Jewish Life and Culture in the Middle Ages. *** Offered concurrently with HIST 249 Modern Jewish History.

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

For more information, contact Kathleen Carll, Associate Director, 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 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

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 280 (Special Topics) courses.

Electives include		Credits
CJ 274	Sex, Violence and Crime on the Internet	3.0
CJ 275	Issues in Domestic Violence	3.0
ENGL 355 WI	Women and Literature	3.0
HIST 224	Women in American History	3.0
HIST 586	Gender and Technology*	3.0
PSCI 573	Gender, Race, and Science*	3.0
PSY 356I	Women's Health Psychology	3.0
SOC 230	Women and Men in a Changing Society	3.0
WMST 240	Women/Society in a Gobal Context	3.0
WMST 250	African American Herstories	3.0
WMST 275	Women's Health and Human Rights	3.0
WMST 280	Special Topics in Women's Studies	3.0
WMST 299	Independent Study	1.0-12.0
WMST 308	Queer Theory	3.0
WMST 320	Masculinities	3.0

*By permission only.

Drexel University

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Certificate in Medical Humanities

19.0 credits

About the program

Designed for students majoring in any of the humanities, social sciences, biological sciences, health professions, or nursing, the Certificate in Medical Humanities 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 Medical Humanities. 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 Medical Humanities. 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 director:

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

Requirements		Credits
HUM 315	Perspectives in Medical Humanities	3.0
ENGL 470	Capstone Seminar in Medical Humanities	3.0

English

Students select one of the following literature courses:

ENGL 360 WI	Literature and Society: Portrayals of Mental Disorders	3.0
ENGL 370	Topics in Literature and Medicine: Illness and Healing in Literature	3.0
ENGL 370	Topics in Literature and Medicine: The Physician in Literature and Film	3.0
ENGL 370	Topics in Literature and Medicine: Health Matters in Drama	3.0

Philosophy

Students select one of the following philosophy courses:

PHIL 251	Ethics	3.0
PHIL 321	Biomedical Ethics	3.0
PHIL 355	Philosophy of Medicine	3.0
PHIL 361	Philosophy of Science	3.0

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

Africana Studies

AFAS 395	Special Topics in Africana Studies: Race, Disease, and History	3.0
AFAS 395	Special Topics in Africana Studies: HIV/Aids in Africa	3.0

Anthropology

ANTH 210	Worldview: Science, Religion, Magic	3.0
ANTH 220	Aging in the Cross-Cultural Perspective	3.0

Art History

ARTH 320	Art in the Age of Technology	3.0
ARTH 465 WI	Special Topics in Art History	3.0

Biology

BIO 212	Biotechnology	3.0
BMES 338	Biomedical Ethics and Law	3.0

Environmental Studies

ENVS 321	Environmental Health	3.0
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History

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

Psychology

PSY 242	Psychology of Disability	3.0
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PSY 244	Culture and Personality	3.0
PSY 252	Death and Dying	3.0
PSY 255	Health Psychology	3.0
PSY 356	Women's Health Psychology	3.0

Sociology

SOC 120	Sociology of the Family	3.0
SOC 125	Sociology of Aging	3.0
SOC 225	Sociology of Technology and Aging	3.0
SOC 235	Sociology of Health	3.0