

# Drexel University

## Catalog 2009/2010

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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, scholarships, and creative activities which expand disciplinary boundaries and to enhance faculty expertise and the quality of the university's instruction; and to improve the quality of life for the University's community through co-curricular programming in the arts and sciences.

Each 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.

### **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. 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 requirements 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.

### **Majors in Science or Mathematics with Secondary and Elementary Teacher Certification**

The School of Education offers innovative and science-intensive curricula that combine academic majors with appropriate coursework and experiences to satisfy state requirements for certification in biology, chemistry, earth and space sciences, mathematics, physics, and elementary education. Students interested in the teacher education programs should contact the director of 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, or dentistry 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. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's Writing-Intensive Course page.

# Drexel University

## Catalog 2009/2010

### **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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## Catalog 2009/2010

### Anthropology

*Bachelor of Arts Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

<b>General requirements</b>		<b>31.0 - 35.0 Credits</b>
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
<b>Foreign language courses</b>		
A minimum of two consecutive language courses*		8.0
* At least one foreign language course must be at the 200-level.		
.		
<b>Humanities and Fine Arts</b>		<b>12.0 Credits</b>
LING 102	Language and Society	3.0
COM 150	Mass Media and Society	3.0
Two Humanities and Fine Arts courses		6.0
<b>Social and Behavioral sciences</b>		<b>12.0 Credits</b>
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
<b>International Studies</b>		<b>6.0 Credits</b>
ANTH 310	Societies in Transition	3.0
International Studies elective		3.0
<b>Studies in Diversity</b>		<b>6.0 Credits</b>
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 215	Anthropology of Gender	3.0
<b>Anthropology requirements</b>		<b>36.0 Credits</b>
<b>Community Research</b>		
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	<b>Qualitative Research Methods</b>	3.0
SOC 250	<b>Research Methods I</b>	3.0
SOC 364	<b>Computer-Assisted Data Analysis I</b>	3.0

**Theory Sequence**

COM 210	<b>Communication Theory</b>	3.0
SOC 260 WI	<b>Classical Social Theory</b>	3.0
ANTH 410	<b>Cultural Theory</b>	3.0

**Anthropology Program Requirements** **30.0 Credits**

Students select 30.0 credits from the following list :

ANTH 120	<b>Biblical Archaeology</b>	3.0
ANTH 210	<b>Worldview: Science, Religion, Magic</b>	3.0
ANTH 212	<b>Topics in World Ethnography</b>	3.0
ANTH 220	<b>Aging in Cross-Cultural Perspectives</b>	3.0
ANTH 240	<b>Urban Anthropology</b>	3.0
ANTH 255	<b>Psychological Anthropology</b>	3.0
ANTH 312	<b>Approaches to Intercultural Behavior</b>	3.0
ANTH 355	<b>Anthropology of Cyberspace</b>	3.0
ANTH 360	<b>Culture and the Environment</b>	3.0
ANTH 365	<b>Family and Kinship</b>	3.0
ANTH 380	<b>Special Topics in Anthropology</b>	3.0
COM 345	<b>Intercultural Communication</b>	3.0
COM 360	<b>International Communication</b>	3.0
SOC 125	<b>Sociology of the Aging</b>	3.0
SOC 210	<b>Race and Ethnic Relations</b>	3.0
SOC 220	<b>Wealth and Power</b>	3.0
SOC 335	<b>Sociology of Education</b>	3.0

**Electives** **45.0 - 49.0 Credits**

<b>Free electives</b>	45.0 - 49.0
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**Writing-Intensive Course Requirements**

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

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

**BA Anthropology**  
4 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">UNIV 101</a> 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>
<b>Term 2</b>	
<a href="#">ANTH 110</a> The Human Past	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a> 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>
<b>Term 3</b>	
<a href="#">ANTH 390</a> Seminar in Ethnography	3.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">SOC 260</a> Classical Social Theory	3.0
<a href="#">SOC 270</a> Theory of Applied and Community Sociology	3.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 4</b>	
<a href="#">ANTH 215</a> Anthropology of Gender	3.0
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">COM 220</a> Introduction to Communication	3.0
Humanities/Fine Arts elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 5</b>	
<a href="#">ANTH 370</a> Ethnographic Methods	3.0
<a href="#">COM 210</a> Theory and Models of Communication	3.0
<a href="#">SOC 250</a> Research Methods I	3.0
Humanities/Fine Arts elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 6</b>	
<a href="#">ANTH 310</a> Societies in Transition	3.0
<a href="#">ANTH 390</a> Seminar in Ethnography	3.0
<a href="#">LING 101</a> Introduction to Linguistics	3.0
<a href="#">SOC 364</a> Computer-Assisted Data Analysis I	3.0
Anthropology program requirement (See degree requirements)	3.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 7</b>	
<a href="#">ANTH 330</a> Media Anthropology	3.0
Free electives	12.0
<i>Term Credits</i>	<i>15.0</i>

<b>Term 8</b>		<b>Credits</b>
<a href="#">ANTH 390</a>	Seminar in Ethnography	3.0
	Anthropology program requirements (See degree requirements)	6.0
	Free elective	4.0
	<b>Term Credits</b>	<b>13.0</b>
<b>Term 9</b>		<b>Credits</b>
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
<a href="#">COM 355</a>	Ethnography of Communication	3.0
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	6.0
	<b>Term Credits</b>	<b>18.0</b>
<b>Term 11</b>		<b>Credits</b>
	Anthropology program requirements (See degree requirements)	6.0
	Free electives	12.0
	Social and Behavioral Sciences elective	3.0-4.0
	<b>Term Credits</b>	<b>21.0-22.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">ANTH 390</a>	Seminar in Ethnography	3.0
	Anthropology program requirement (See degree requirements)	3.0
	Free electives	9.0
	<b>Term Credits</b>	<b>15.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0-185.0</b>

### 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	<b>Cultural Diversity: Introduction to Cultural Anthropology</b>	3.0
ANTH 110	<b>The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology</b>	3.0
ANTH 210	<b>Worldview: Science, Religion, Magic</b>	3.0
ANTH 370	<b>Ethnographic Methods</b>	3.0
ANTH 410	<b>Cultural Theory</b>	3.0

#### Three of the following courses **9.0**

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

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.

# Drexel University

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### Biological Sciences

*Bachelor of Science: 187.5 credits*

Degree requirements (incoming students, 2009/2010)

#### Bioscience required courses

BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 201	Human Physiology I	4.0
BIO 203	Human Physiology II	4.0
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 270	Developmental Biology	3.0
BIO 311	Metabolism	4.0
BIO 460	Evolution	3.0
BIO 471	Seminar in Biological Science	2.0
BIO 472	Seminar in Biological Science	2.0
BIO 473	Seminar in Biological Science	2.0
ENVS 230	General Ecology	3.0
	<b>Bioscience electives*</b>	<b>32.0</b>

\*Students must select at least four laboratory courses and eight lecture courses, with at least one from each area of the following areas: (1) Organismal, Cellular and Molecular Biology; (2) Ecology and Environmental; and (3) Nutrition and Foods.

#### Mathematics and statistics courses

MATH 410	Scientific Data Analysis I	3.0
MATH 411	Scientific Data Analysis II	3.0

#### 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

#### Physical sciences courses

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	<b>Organic Chemistry III</b>	3.0
CHEM 244	<b>Organic Chemistry I Laboratory</b>	3.0
CHEM 245	<b>Organic Chemistry Laboratory II</b>	3.0
PHYS 152	<b>Introductory Physics I</b>	4.0
PHYS 153	<b>Introductory Physics II</b>	4.0
PHYS 154	<b>Introductory Physics III</b>	4.0

#### **Humanities and social science courses**

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

#### **Other courses**

	<b>Free electives*</b>	15.0
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\* Students can choose from a variety of course offerings to best meet their academic interests. The program also provides opportunities for qualified students to take research credits (through permission of department), allowing them to carry out a research project with a faculty member.

#### *Writing-Intensive Course Requirements*

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

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

## Recommended Plan Of Study

### BS Biological Sciences 5 YR UG Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology and Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 121</a>	Calculus I	4.0
or		
<a href="#">MATH 101</a>	Introduction to Math Analysis I	4.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 2</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 122</a>	Calculus II	4.0
or		
<a href="#">MATH 102</a>	Introduction to Math Analysis II	4.0
	<i>Term Credits</i>	<i>17.0</i>
<b>Term 3</b>		<b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity and Ecology	4.5
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 239</a>	Mathematics for the Life Sciences	4.0
or		
<a href="#">MATH 123</a>	Calculus III	4.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 4</b>		<b>Credits</b>
<a href="#">BIO 218</a>	Principles of Molecular Biology	3.0
<a href="#">BIO 219</a>	Techniques in Molecular Biology	2.5
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">ENVR 230</a>	General Ecology	3.0
<a href="#">PHYS 152</a>	Introductory Physics I	4.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 5</b>		<b>Credits</b>
<a href="#">BIO 214</a>	Principles of Cell Biology	3.0
<a href="#">BIO 215</a>	Techniques in Cell Biology	2.5
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Laboratory I	3.0
<a href="#">PHYS 153</a>	Introductory Physics II	4.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 6</b>		<b>Credits</b>
<a href="#">BIO 201</a>	Human Physiology I	4.0
<a href="#">CHEM 243</a>	Organic Chemistry III	3.0
<a href="#">CHEM 245</a>	Organic Chemistry Laboratory II	3.0
<a href="#">PHYS 154</a>	Introductory Physics III	4.0
	Humanities/Social Science elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
<b>Term 7</b>		<b>Credits</b>



<a href="#">BIO 203</a>	Human Physiology II	4.0
<a href="#">PHIL 251</a>	Ethics	3.0
	Biology laboratory requirement course (See degree requirements)	2.0
	Bioscience elective	3.0
	Free elective	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">BIO 270</a>	Development Biology	3.0
<a href="#">BIO 311</a>	Metabolism	4.0
<a href="#">COM 230</a>	Techniques of Speaking	3.0
	Biology laboratory requirement course (See degree requirements)	2.0
	Humanities/Social Science elective	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">COM 310</a>	Technical Communication	3.0
	Science, Technology and Human Affairs elective (Any HIST course 281-294)	3.0
	Two biology laboratory requirement courses (See degree requirements)	4.0
	Bioscience elective	3.0
	Free elective	3.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">BIO 460</a>	Evolution	3.0
<a href="#">BIO 471</a>	Seminar in Biological Science	2.0
<a href="#">MATH 410</a>	Scientific Data Analysis I	3.0
	Bioscience electives	6.0
	<b>Term Credits</b>	<b>14.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">BIO 472</a>	Seminar in Biological Science	2.0
<a href="#">MATH 411</a>	Scientific Data Analysis II	3.0
	Bioscience electives	6.0
	Free elective	3.0
	<b>Term Credits</b>	<b>14.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">BIO 473</a>	Seminar in Bioscience	2.0
	Bioscience electives	6.0
	Free electives	6.0
	<b>Term Credits</b>	<b>14.0</b>
	<b>Total Credits (minimum)</b>	<b>187.5</b>

### Minor in Biological Sciences\*

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

For the minor in Biological Sciences, students must complete 33.5 credits of coursework as follows:

#### Required courses

BIO 121	<b>Physiology and Nutrition</b>	4.5
BIO 122	<b>Cells and Genetics</b>	4.5
BIO 123	<b>Organismal Diversity and Ecology</b>	4.5
BIO 214	<b>Principles of Cell Biology</b>	3.0
BIO 215	<b>Techniques of Cell Biology</b>	2.5
BIO 218	<b>Principles of Molecular Biology</b>	3.0
BIO 219	<b>Techniques of Molecular Biology</b>	2.5
BIO 306	<b>Biochemistry Laboratory</b>	2.0
BIO 311	<b>Metabolism</b>	4.0
BIO 460	<b>Evolution</b>	3.0

\*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	<b>Bioinformatics I</b>	3.0
BIO 332	<b>Bioinformatics II</b>	3.0
	<b>Two senior research project courses*</b>	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 102	<b>Biology I: Cells and Tissues</b>	4.0
BIO 104	<b>Biology II: Growth and Heredity</b>	2.5
BIO 449	<b>Recombinant DNA Laboratory</b>	5.0
NFS 400	<b>Nutritional Chemistry</b>	3.0
NFS 401	<b>Nutritional Chemistry Laboratory</b>	1.0

#### *Programming and Computation*

CS 171	<b>Computer Programming I</b>	3.0
CS 172	<b>Computer Programming II</b>	3.0
CS 260	<b>Data Structures</b>	3.0
INFO 102	<b>Introduction to Information Systems</b>	3.0

#### *Human/Computer Interface Design*

CS 337	<b>Human-Computer Interaction</b>	3.0
INFO 110	<b>Human-Computer Interaction I</b>	3.0

#### *Databases*

CS 461	<b>Database Systems</b>	3.0
INFO 200	<b>Systems Analysis I</b>	3.0
INFO 210	<b>Database Management Systems</b>	3.0

***Statistics***

MATH 310	<b>Introduction to Probability and Statistics</b>	4.0
MATH 311	<b>Probability and Statistics I</b>	4.0
MATH 312	<b>Probability and Statistics II</b>	4.0
MATH 410	<b>Scientific Data Analysis I</b>	3.0
MATH 411	<b>Scientific Data Analysis II</b>	3.0

# Drexel University

## Catalog 2009/2010

### 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.

#### Facilities

There are seven undergraduate learning laboratory environments in the department: three freshman Chemistry labs, an advanced Organic Chemistry lab, a Physical Chemistry lab, an instrumentation laboratory and a combined Analytical/Inorganic Chemistry lab. The freshman and Organic labs were recently renovated to be state-of-the-art facilities.

#### *Mass Spectrometry Laboratory*

Finnigan LCQ LC-MS mass spectrometer equipped with an electrospray ionization source, a Waters Autospec M high resolution mass spectrometer, and a Bruker Autoflex LRF MALDI 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 newly renovated and 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 equipped with 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 7.5. 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. Additional full-time support includes an instrument specialist (for NMR and MS), a glassblower (Chemistry Department), two electronics specialists (College of Arts & Sciences Electronics Shop), and four machinists (Drexel University Machine Shop).

# Drexel University

## Catalog 2009/2010

### Chemistry

*Bachelor of Arts Degree: 184.5 credits*

Degree requirements (incoming students, 2009/2010)

<b>General education requirements*</b>		<b>43.0 Credits</b>
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 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

<b>Chemistry requirements</b>		<b>49.0 Credits</b>
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 252	Physical Chemistry I	3.0
CHEM 357 WI	Physical Chemistry I Laboratory	2.5
CHEM 358	Physical Chemistry II Laboratory	2.5
CHEM 367	Chemical Information Retrieval	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEC 353	Physical Chemistry and Applications III	4.0

<b>Chemistry electives</b>		<b>6.0 Credits</b>
	Chemistry electives**	6.0

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

<b>Biology requirements</b>		<b>13.5 Credits</b>
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5

BIO 123	Organismal Diversity and Ecology	4.5
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<b>Mathematics requirements</b>		<b>12.0 Credits</b>
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0

<b>Physics requirements</b>		<b>12.0 Credits</b>
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 201	Fundamentals of Physics III	4.0

<b>Free electives</b>		<b>53.0 Credits</b>
<b>Free electives</b>		53.0

**\* 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, 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

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology and Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity & Ecology	4.5
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">CHEM 103</a>	General Chemistry III	5.0
	<i>Term Credits</i>	<b>16.5</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 230</a>	Quantitative Analysis	3.0
<a href="#">CHEM 231</a>	Quantitative Analysis Laboratory	2.0
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
	Free electives	6.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Laboratory I	3.0
<a href="#">CHEM 252</a>	Physical Chemistry I	3.0
<a href="#">PHYS 101</a>	Fundamentals of Physics I	4.0
	<i>Term Credits</i>	<b>14.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">CHEM 243</a>	Organic Chemistry III	3.0
<a href="#">CHEM 245</a>	Organic Chem Lab II	3.0
<a href="#">PHYS 102</a>	Fundamentals of Physics II	4.0
	Chemistry elective	3.0
	Humanities elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">CHEM 357</a>	Physical Chemistry Lab I	2.5
<a href="#">CHEM 367</a>	Chemical Information Retrieval	3.0
<a href="#">CHEM 421</a>	Inorganic Chemistry I	3.0
<a href="#">PHYS 201</a>	Fundamentals of Physics III	4.0
	Language course	4.0
	<i>Term Credits</i>	<b>16.5</b>



<b>Term 8</b>		<b>Credits</b>
<a href="#">CHEC 353</a>	Physical Chemistry and Applications III	4.0
<a href="#">CHEM 358</a>	Physical Chemistry Lab II	2.5
.	Diversity studies elective	3.0
.	International studies elective	3.0
.	Language course	4.0
.	<i>Term Credits</i>	<b>16.5</b>
<b>Term 9</b>		<b>Credits</b>
.	Chemistry elective	3.0
.	Diversity studies elective	3.0
.	Humanities elective	3.0
.	International studies elective	3.0
.	Social and Behavioral Sciences elective	3.0
.	<i>Term Credits</i>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
.	Free electives	12.0
.	Social and Behavioral Sciences elective	3.0
.	<i>Term Credits</i>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
.	Free electives	15.0
.	<i>Term Credits</i>	<b>15.0</b>
<b>Term 12</b>		<b>Credits</b>
.	Free electives	12.0
.	<i>Term Credits</i>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>184.5</b>

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# Drexel University

## Catalog 2009/2010

### Chemistry

*Bachelor of Science Degree: 192.0 credits*

Degree requirements (incoming students, 2009/2010)

General education requirements		23.0 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
HIST 281	History of Science II	3.0
	Technical electives*	6.0
	Liberal studies electives*	3.0

\*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		87.5 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 252	Physical Chemistry I	3.0
CHEM 346	Qualitative Organic Chemistry	5.5
CHEC 353	Physical Chemistry and Applications III	4.0
CHEM 355	Physical Chemistry IV	3.0
CHEM 357 WI	Physical Chemistry I Laboratory	2.5
CHEM 358	Physical Chemistry II Laboratory	2.5
CHEM 367	Chemical Information Retrieval	3.0
CHEM 420	Molecular Symmetry and Group Theory Applied to Chemistry	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 422	Inorganic Chemistry II	3.0
CHEM 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
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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** **23.0 Credits**

PHYS 160	Computer Programming	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
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** **33.0 Credits**

	Free electives	33.0
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## Recommended Plan Of Study

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

<b>Term 1</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">HIST 281</a>	History of Science II	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>14.5</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">PHYS 101</a>	Fundamentals of Physics I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.5</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">PHYS 102</a>	Fundamentals of Physics II	4.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 230</a>	Quantitative Analysis	3.0
<a href="#">CHEM 231</a>	Quantitative Analysis Lab	2.0
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">MATH 200</a>	Calculus IV	4.0
<a href="#">PHYS 201</a>	Fundamentals of Physics III	4.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Lab I	3.0
<a href="#">CHEM 252</a>	Physical Chemistry I	3.0
<a href="#">MATH 210</a>	Differential Equations	4.0
or		
<a href="#">MATH 201</a>	Linear Algebra	4.0
	<i>Term Credits</i>	<b>18.5</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">BIO 214</a>	Principles of Cell Biology	3.0
<a href="#">CHEM 243</a>	Organic Chemistry III	3.0
<a href="#">CHEM 245</a>	Organic Chemistry Lab II	3.0
<a href="#">CHEM 357</a>	Physical Chemistry Lab I	2.5
	Free electives	6.0
	<i>Term Credits</i>	<b>17.5</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">CHEC 353</a>	Physical Chemistry & Applications III	4.0
<a href="#">CHEM 358</a>	Physical Chemistry Lab II	2.5
	Free electives	6.0

	Technical elective (200+ level, see degree requirements)	3.0
	<i>Term Credits</i>	<i>15.5</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">CHEM 367</a>	Chemical Information Retrieval	3.0
<a href="#">CHEM 421</a>	Inorganic Chemistry I	3.0
<a href="#">CHEM 430</a>	Analytical Chemistry I	3.0
<a href="#">PHYS 160</a>	Introduction to Scientific Computing	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">CHEM 420</a>	Molecular Symmetry and Group Theory-Chemistry	3.0
<a href="#">CHEM 431</a>	Analytical Chemistry II	4.0
	Free electives	6.0
	Technical elective (200+ level, see degree requirements)	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">CHEM 346</a>	Qualitative Organic Lab	5.5
<a href="#">CHEM 493</a>	Senior Research Project	3.0
<a href="#">BIO 404</a>	Structure and Function of Biomolecules	4.0
or		
<a href="#">BIO 311</a>	Metabolism	4.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.5</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">CHEM 493</a>	Senior Research Project	3.0
<a href="#">BIO 406</a>	Computational Biochemistry Lab	2.0
or		
<a href="#">BIO 306</a>	Biochemistry Laboratory	2.0
	Free electives	6.0
	Liberal studies elective	3.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">CHEM 355</a>	Physical Chemistry IV	3.0
<a href="#">CHEM 422</a>	Inorganic Chemistry II	3.0
<a href="#">CHEM 425</a>	Inorganic Chemistry Lab	4.0
<a href="#">CHEM 493</a>	Senior Research Project	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>16.0</i>
	<b>Total Credits (minimum)</b>	<b>192.0</b>

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## Recommended Plan Of Study

### BS Chemistry, 4-Year Non-Co-Op

4 YR UG No Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">HIST 281</a>	History of Science II	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>14.5</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">PHYS 101</a>	Fundamentals of Physics I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>16.5</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">PHYS 102</a>	Fundamentals of Physics II	4.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 230</a>	Quantitative Analysis	3.0
<a href="#">CHEM 231</a>	Quantitative Analysis Lab	2.0
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">MATH 200</a>	Calculus IV	4.0
<a href="#">PHYS 201</a>	Fundamentals of Physics III	4.0
	<b>Term Credits</b>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Lab I	3.0
<a href="#">CHEM 252</a>	Physical Chemistry I	3.0
<a href="#">MATH 210</a>	Differential Equations	4.0
or		
<a href="#">MATH 201</a>	Linear Algebra	4.0
	<b>Term Credits</b>	<b>18.5</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">CHEM 243</a>	Organic Chemistry III	3.0
<a href="#">CHEM 245</a>	Organic Chemistry Lab II	3.0
<a href="#">CHEM 357</a>	Physical Chemistry Lab I	2.5
	Free electives	6.0
	Technical elective (200+ level, see degree requirements)	3.0
	<b>Term Credits</b>	<b>17.5</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">BIO 214</a>	Principles of Cell Biology	3.0
<a href="#">CHEM 367</a>	Chemical Info Retrieval	3.0
<a href="#">CHEM 421</a>	Inorganic Chemistry I	3.0
<a href="#">CHEM 430</a>		

	Analytical Chemistry I	3.0
<a href="#">PHYS 160</a>	Introduction to Scientific Computing	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">CHEC 353</a>	Physical Chemistry and Applications III	4.0
<a href="#">CHEM 358</a>	Physical Chemistry Lab II	2.5
<a href="#">CHEM 420</a>	Molecular Symmetry and Group Theory/Chemistry	3.0
<a href="#">CHEM 431</a>	Analytical Chemistry II	4.0
	Free elective	3.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 9</b>		<b>Credits</b>
	Free elective	6.0
	Liberal studies electives	3.0
	Technical elective (200+ level, see degree requirements)	6.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">CHEM 346</a>	Qualitative Organic Lab	5.5
<a href="#">CHEM 493</a>	Senior Research Project	3.0
<a href="#">BIO 404</a>	Structure and Function of Biomolecules	4.0
or		
<a href="#">BIO 311</a>	Metabolism	4.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.5</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">CHEM 493</a>	Senior Research Project	3.0
<a href="#">BIO 406</a>	Computational Biochemistry Laboratory	2.0
or		
<a href="#">BIO 306</a>	Biochemistry Laboratory	2.0
	Free electives	9.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">CHEM 355</a>	Physical Chemistry IV	3.0
<a href="#">CHEM 422</a>	Inorganic Chemistry II	3.0
<a href="#">CHEM 425</a>	Inorganic Chemistry Lab	4.0
<a href="#">CHEM 493</a>	Senior Research Project	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>16.0</i>
	<b>Total Credits (minimum)</b>	<b>192.0</b>

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### Minor in Chemistry

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

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

#### Required courses

CHEM 241	<b>Organic Chemistry I</b>	4.0
CHEM 230	<b>Quantitative Analysis</b>	3.0
CHEM 252	<b>Physical Chemistry I*</b>	3.0
CHEM 421	<b>Inorganic Chemistry I</b>	3.0
CHEM 244	<b>Organic Chemistry I Laboratory</b>	3.0
	<b>A second Chemistry laboratory course</b>	3.0
	<b>Chemistry electives</b>	8.5†

\* Students may substitute CHEC 352 Physical Chemistry II (4 credits) or CHEC 353 Physical Chemistry III (4 credits) for the CHEM 252 physical chemistry lecture requirement.

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



### 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 Urban 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 2009/2010

### **Corporate and Public Relations**

#### **About the Concentration**

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

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

# Drexel University

## Catalog 2009/2010

### Communication: Corporate and Public Relations Concentration

*Bachelor of Arts Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

#### General requirements

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

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

#### Communication core requirements

**36.0  
Credits**

##### *Theory Sequence*

COM 101	<b>Human Communication</b>	3.0
COM 210	<b>Theory and Models of Communication</b>	3.0
COM 400	<b>Seminar in Communication</b>	3.0
SOC 260	<b>Classical Social Theory</b>	3.0

##### *Methods Sequence*

COM 220	<b>Qualitative Research Methods</b>	3.0
SOC 250	<b>Research Methods</b>	3.0
SOC 364	<b>Computer-Assisted Data Analysis I</b>	3.0

##### *Additional Core Requirements*

COM 230	<b>Techniques of Speaking</b>	3.0
COM 240	<b>New Technologies in Communication</b>	3.0
COM 380	<b>Special Studies in Communications Theory</b>	3.0
COM 491	<b>Senior Project in Communication I</b>	3.0
COM 492	<b>Senior Project in Communication II</b>	3.0
PHIL 305	<b>Communication Ethics</b>	3.0

<b>Corporate and Public Relations concentration requirements</b>		<b>26.0 Credits</b>
COM 260 WI	<b>Fundamentals of Journalism</b>	3.0
COM 280	<b>Public Relations</b>	3.0
COM 281	<b>Advanced Public Relations</b>	3.0
COM 282	<b>Public Relations Writing</b>	3.0

**Other program requirements**

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

<b>One of the following Visual Communication courses*:</b>		<b>3.0</b>
COM 335	<b>Electronic Publishing</b>	3.0
COM 340	<b>Desktop Publishing</b>	3.0

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

**Additional Electives**

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

*Writing-Intensive Course Requirements*

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

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

## Recommended Plan Of Study

### BA Communication

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

Term 1	Credits
<a href="#">COM 101</a> Human Communication	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course	4.0
<i>Term Credits</i>	<i>14.0</i>
Term 2	Credits
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a> 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
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">COM 280</a> Public Relations	3.0
<a href="#">ENGL 103</a> 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
<a href="#">COM 210</a> 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
<a href="#">COM 220</a> Introduction to Communication Research	3.0
<a href="#">COM 230</a> Techniques of Speaking	3.0
<a href="#">COM 240</a> New Technologies In Communucation	3.0
<a href="#">COM 260</a> 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
<a href="#">COM 281</a> Advanced Public Relations	3.0
<a href="#">SOC 260</a> 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
<a href="#">COM 282</a> Public Relations Writing	3.0
<a href="#">SOC 250</a> 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
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ORGB 300</a>	Organizational Behavior	4.0
<a href="#">PHIL 305</a>	Communication Ethics	3.0
<a href="#">SOC 364</a>	Computer-Assisted Data Analysis I	3.0
<a href="#">LING 102</a>	Language and Society	3.0
or		
<a href="#">LING 101</a>	Introduction to Linguistics	3.0
	Visual communications elective (See degree requirements for list)	3.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">MKTG 301</a>	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
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">COM 380</a>	Special Topics in Communication Theory	3.0
<a href="#">COM 400</a>	Seminar in Communication	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free electives	6.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">COM 491</a>	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
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">COM 492</a>	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
	<b>Term Credits</b>	<b>14.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0-186.0</b>

# Drexel University

## Catalog 2009/2010

### Communication: Corporate and Public Relations Concentration

*Bachelor of Science Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

#### General requirements

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

#### One of the following Science sequences:

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

#### One of the following Math sequences:

MATH 101	<b>Introduction to Analysis I</b>	4.0
MATH 102	<b>Introduction to Analysis II</b>	4.0
or		
MATH 121	<b>Calculus I</b>	4.0
MATH 122	<b>Calculus II</b>	4.0

#### One English course from each of the following sets:

ENGL 201	<b>Renaissance to the Enlightenment</b>	3.0
ENGL 202 WI	<b>Romanticism to Modernism</b>	
ENGL 203 WI	<b>Post-Colonial Literature I:</b>	3.0

**Communication core requirements**

***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	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 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	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



# Drexel University

## Catalog 2009/2010

### **Global Journalism**

#### **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.

# Drexel University

## Catalog 2009/2010

### Communication: Global Journalism Concentration

*Bachelor of Arts Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

#### General requirements

ANTH 101	<b>Cultural Diversity: Introduction to Cultural Anthropology</b>	3.0
<b>or</b>		
ANTH 110	<b>The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology</b>	3.0
COM 150	<b>Mass Media and Society</b>	3.0
COM 345	<b>Intercultural Communication</b>	3.0
<b>or</b>		
ANTH 312	<b>Approaches to Intercultural Behavior</b>	
COM 360	<b>International Communication</b>	3.0
ENGL 101	<b>Expository Writing and Reading</b>	3.0
ENGL 102	<b>Persuasive Writing and Reading</b>	3.0
ENGL 103	<b>Analytical Writing and Reading</b>	3.0
SOC 101	<b>Introduction to Sociology</b>	3.0
UNIV 101	<b>The Drexel Experience</b>	2.0
	<b>Two Mathematics courses</b>	6.0-8.0
	<b>Two Science courses</b>	6.0-8.0
	<b>Foreign language courses*</b>	8.0
	<b>Three Humanities and Fine Arts electives</b>	12.0
	<b>Two Social and Behavioral Sciences electives</b>	9.0
	<b>One International Studies elective</b>	6.0
	<b>One Studies in Diversity elective</b>	6.0

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

#### Communication core requirements 36.0 Credits

##### *Theory Sequence*

COM 101	<b>Human Communication</b>	3.0
COM 210	<b>Theory and Models of Communication</b>	3.0
COM 400	<b>Seminar in Communication</b>	3.0
SOC 260	<b>Classical Social Theory</b>	3.0

##### *Methods Sequence*

COM 220	<b>Qualitative Research Methods</b>	3.0
SOC 250	<b>Research Methods</b>	3.0
SOC 364	<b>Computer-Assisted Data Analysis I</b>	3.0

##### *Additional Core Requirements*

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

<b>Global Journalism concentration requirements</b>		<b>27.0 Credits</b>
COM 260 WI	<b>Fundamentals of Journalism</b>	3.0
COM 280	<b>Public Relations</b>	3.0
COM 300 WI	<b>On-Line Journalism</b>	3.0
COM 315	<b>Advanced Journalism</b>	3.0
COM 365	<b>Journalists, the Courts, and the Law</b>	3.0
COM 380	<b>Special Studies in Communication Theory</b>	3.0
COM 390 WI	<b>Global Journalism</b>	3.0

**Other program requirements**

LING 101	<b>Introduction to Linguistics</b>	3.0
<b>or</b>		
LING 102	<b>Language and Society</b>	3.0

**Select one course from the following list:**

PSCI 150	<b>International Politics</b>	4.0
BLAW 340	<b>International Business Law</b>	4.0
IAS 359	<b>Culture and Values</b>	3.0
COM 361	<b>International Public Relations</b>	3.0
SOC 340	<b>Globalization</b>	3.0

**Additional Electives**

	<b>Communication electives (Any four courses with a COM rubric at the 200-level or higher)</b>	12.0
	<b>Culture electives (Any two courses with a SOC, ANTH or CJ rubric. At least one course must be at the 200-level or higher.)</b>	6.0
	<b>Free electives</b>	34.0

*Writing-Intensive Course Requirements*

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

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

## Recommended Plan Of Study

### BA Communication

5 YR UG Co-op Concentration /Global Journalism

Term 1	Credits
<a href="#">COM 101</a> Human Communication	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course	4.0
<i>Term Credits</i>	<i>14.0</i>
Term 2	Credits
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a> 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	Credits
<a href="#">COM 210</a> Theory and Models of Communication	3.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">ANTH 110</a> The Human Past	3.0
or	
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
Foreign language course	4.0
Math elective	3.0-4.0
<i>Term Credits</i>	<i>16.0-17.0</i>
Term 4	Credits
<a href="#">COM 220</a> Introduction to Communication Research	3.0
<a href="#">LING 102</a> Language and Society	3.0
or	
<a href="#">LING 101</a> 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
Humanities/Fine Arts elective	3.0
Science elective (See degree requirements)	3.0
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	<i>18.0</i>
Term 5	Credits
<a href="#">COM 230</a> Techniques of Speaking	3.0
<a href="#">COM 240</a> New Technologies In Communication	3.0
<a href="#">COM 260</a> Fundamentals of Journalism	3.0
<a href="#">SOC 260</a> Classical Social Theory	3.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
Term 6	Credits
<a href="#">COM 360</a> International Communication	3.0
<a href="#">SOC 250</a> Research Methods I	3.0
<a href="#">COM 345</a> Intercultural Communication	3.0
or	
<a href="#">ANTH 312</a> Approaches to Intercultural Behavior	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
	<b>Term Credits</b>	<b>18.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">COM 280</a>	Public Relations	3.0
<a href="#">COM 300</a>	On-line Journalism	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Diversity studies elective	3.0
	Social and Behavioral Sciences elective	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">SOC 364</a>	Computer-Assisted Data Analysis I	3.0
<a href="#">BLAW 340</a>	International Business Law	4.0
or		
<a href="#">COM 361</a>	International Public Relations	3.0
or		
<a href="#">SOC 340</a>	Globalization	3.0
or		
<a href="#">PSCI 150</a>	International Politics	4.0
or		
<a href="#">IAS 359</a>	Culture & Values	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Social and Behavioral Sciences elective	3.0
	<b>Term Credits</b>	<b>13.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">COM 315</a>	Advanced Journalism	3.0
	Communication elective (Any COM or LING course at 200-level or higher)	3.0
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">COM 365</a>	Journalists, the Courts, and the Law	3.0
<a href="#">COM 380</a>	Special Topics in Communication Theory	3.0
<a href="#">COM 390</a>	Global Journalism	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
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">COM 400</a>	Seminar in Communication	3.0
<a href="#">COM 491</a>	Senior Project in Communication I	3.0
<a href="#">PHIL 305</a>	Communication Ethics	3.0
	Free electives	6.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
<a href="#">COM 492</a>	Senior Project in Communication II	3.0
	Free electives	8.0
	<b>Term Credits</b>	<b>14.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0-185.0</b>

### **Technical and Science Communication**

#### **About the Concentration**

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

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

# Drexel University

## Catalog 2009/2010

### Communication: Technical and Science Communication Concentration

*Bachelor of Science Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

General requirements		65.0 Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
<b>or</b>		
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
<b>One of the following Science sequences:</b>		
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
<b>or</b>		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
<b>or</b>		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0
<b>One of the following Math sequences:</b>		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
<b>or</b>		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
Communication core requirements		36.0 Credits
<b>Theory Sequence</b>		

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

<b>Technical and Science concentration requirements</b>		<b>30.0 Credits</b>
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 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.



## Recommended Plan Of Study

### BS Communication

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

Term 1	Credits
<a href="#">COM 101</a> Human Communication	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
<a href="#">MATH 121</a> Calculus I	4.0
or	
<a href="#">MATH 101</a> Introduction to Math Analysis I	4.0
<i>Term Credits</i>	<i>14.0</i>
Term 2	Credits
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">PSY 101</a> General Psychology I	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
<a href="#">MATH 122</a> Calculus II	4.0
or	
<a href="#">MATH 102</a> Introduction to Math Analysis II	4.0
<i>Term Credits</i>	<i>14.0</i>
Term 3	Credits
<a href="#">CS 161</a> Introduction to Computing	3.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">PSCI 100</a> Introduction to Political Science	4.0
<a href="#">ANTH 110</a> Human Past: Anthropology and Prehistoric Archeology	3.0
or	
<a href="#">ANTH 101</a> 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>	<i>16.0</i>
Term 4	Credits
<a href="#">COM 220</a> Introduction to Communication Research	3.0
<a href="#">BIO 102</a> Biology I: Cells and Tissues	4.0
or	
<a href="#">PHYS 103</a> General Physics I	4.0
or	
<a href="#">CHEM 111</a> 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>	<i>16.0</i>
Term 5	Credits
<a href="#">COM 230</a> Techniques of Speaking	3.0
<a href="#">COM 240</a> New Technologies In Communication	3.0
<a href="#">SOC 260</a> Classical Social Theory	3.0
<a href="#">ENGL 300</a> Literature & Science	3.0
or	
<a href="#">ENGL 302</a> Environmental Literature	3.0
or	
<a href="#">PHIL 361</a> Philosophy of Science	3.0
<a href="#">BIO 104</a> Biology II: Growth and Heredity	4.0

or		
<a href="#">CHEM 112</a>	General Chemistry II	4.0
or		
<a href="#">PHYS 104</a>	General Physics II	4.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 6</b>		<b>Credits</b>
<a href="#">COM 335</a>	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>	<i>16.0</i>
<b>Term 7</b>		<b>Credits</b>
<a href="#">COM 320</a>	Science Writing	3.0
<a href="#">COM 340</a>	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>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">COM 210</a>	Theory and Models of Communication	3.0
<a href="#">COM 310</a>	Technical Communication	3.0
<a href="#">SOC 250</a>	Research Methods I	3.0
<a href="#">HIST 280</a>	History of Science I	3.0
or		
<a href="#">HIST 281</a>	History of Science II	3.0
or		
<a href="#">HIST 285</a>	Technology in Historical Perspective	3.0
<a href="#">LING 101</a>	Introduction to Linguistics	3.0
or		
<a href="#">LING 102</a>	Language and Society	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">COM 350</a>	Message Design and Evaluation	3.0
<a href="#">COM 420</a>	Technical Editing	3.0
<a href="#">SOC 364</a>	Computer-Assisted Data Analysis I	3.0
	Free elective	3.0
	History (HIST) elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">COM 380</a>	Special Topics in Communication Theory	3.0
<a href="#">PSY 337</a>	The Psychology of Human-Computer Interaction	3.0
or		
<a href="#">PSY 330</a>	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>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">COM 400</a>	Seminar in Communication	3.0
<a href="#">COM 491</a>	Senior Project in Communication I	3.0
<a href="#">PHIL 305</a>	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>	<i>15.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">COM 492</a>	Senior Project in Communication II	3.0

<b>Free electives</b>	<b>12.0</b>
<b><i>Term Credits</i></b>	<b><i>15.0</i></b>
<b>Total Credits (minimum)</b>	<b>182.0</b>

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### Minor in Communication

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

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

#### Core courses

COM 101	<b>Human Communication</b>	3.0
<b>or</b>		
COM 111	<b>Principles of Communication</b>	
COM 210	<b>Theories of Communication</b>	3.0
COM 380	<b>Special Topics in Communication</b>	3.0

#### Journalism focus

COM 260 WI	<b>Fundamentals of Journalism</b>	3.0
<b>And one of the following courses:</b>		
COM 300 WI	<b>On-Line Journalism</b>	3.0
COM 315	<b>Advanced Journalism</b>	
COM 390 WI	<b>Global Journalism</b>	

#### Corporate and Public Relations focus

COM 280	<b>Public Relations</b>	3.0
COM 270 WI	<b>Business Communication</b>	3.0
<b>or</b>		
COM 281	<b>Advanced Public Relations</b>	

#### Technical and Science Communication focus

COM 310 WI	<b>Technical Communication</b>	3.0
COM 320 WI	<b>Science Writing</b>	3.0
<b>or</b>		
COM 375 WI	<b>Grant Writing</b>	

#### Three Additional Courses

<b>Three Communication (COM) or Linguistics (LING) electives</b>		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 College's Programs in Criminal Justice web page.

# Drexel University

## Catalog 2009/2010

### Criminal Justice

*Bachelor of Science Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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
<b>or</b>		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0

**One of the following science sequences:**

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
<b>or</b>		
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	Restorative Justice	3.0
CJ 375	Criminal Procedure	3.0

CJ 376	<b>Sentencing and Punishment</b>	3.0
CJ 390	<b>Internship in Criminal Justice</b>	0.0 - 6.0
PHIL 330	<b>Ethical Issues in Criminal Justice</b>	3.0

**Writing/Communication Sequence**

COM 230	<b>Techniques of Speaking</b>	3.0
COM 375 WI	<b>Grant Writing</b>	3.0

**Theory Sequence**

SOC 260	<b>Classical Social Theory</b>	3.0
SOC 460 WI	<b>Contemporary Social Theory</b>	3.0
PSCI 329	<b>Theories of Justice</b>	3.0

**Methods Sequence**

COM 220	<b>Introduction to Communications Research</b>	3.0
SOC 250	<b>Research Methods I</b>	3.0
SOC 364	<b>Data Analysis I</b>	3.0

**Criminal Justice Specialization Courses** **24.0-  
25.0  
Credits**

Students select eight of the following courses:

***Forensics***

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

***Cybercrime***

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

***Crime and Procedures***

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

**Other Social Science Electives** **15.0  
Credits**

Students select four of the following courses:

SOC 115	<b>Social Problems</b>	3.0
SOC 120	<b>Sociology of the Family</b>	3.0

SOC 220	<b>Wealth and Power</b>	3.0
SOC 240	<b>Urban Sociology</b>	3.0
SOC 320	<b>Sociology of Deviance</b>	3.0
CJ 380	<b>Special Topics in Criminal Justice</b>	3.0
CJ 399	<b>Independent Study in Criminal Justice</b>	3.0
SOC 380	<b>Special Topics in Sociology</b>	3.0
PSCI 363	<b>Constitutional Law II</b>	3.0

**Students select one of the following courses:**

ANTH 312	<b>Approaches to Intercultural Behavior</b>	3.0
COM 345	<b>Intercultural Communication</b>	3.0
SOC 210	<b>Race and Ethnicity</b>	3.0

<b>Electives</b>	<b>23.0- 29.0 Credits</b>
<b>Free electives</b>	<b>23.0 - 29.0</b>

*Writing-Intensive Course Requirements*

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

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



## Recommended Plan Of Study

### BS Criminal Justice 4 YR UG No Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">CJ 206</a>	Criminal Justice	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">CHEM 101</a>	General Chemistry I	4.0
or		
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 2</b>		<b>Credits</b>
<a href="#">COM 150</a>	Mass Media and Society	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">SOC 115</a>	Social Problems	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">CHEM 102</a>	General Chemistry II	4.0
or		
<a href="#">BIO 104</a>	Biology II: Growth and Heredity	4.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 3</b>		<b>Credits</b>
<a href="#">ANTH 101</a>	Introduction to Cultural Diversity	3.0
<a href="#">CJ 204</a>	Criminology	3.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">PSCI 100</a>	Introduction to Political Science	4.0
<a href="#">SOC 260</a>	Classical Social Theory	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CJ 277</a>	Introduction to Correctional Practices	3.0
<a href="#">COM 220</a>	Qualitative Research Methods	3.0
	Criminal Justice specialization course (See degree requirements for list)	3.0
	History elective	3.0
	<i>Term Credits</i>	<i>12.0</i>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CJ 278</a>	Introduction to Law Enforcement	3.0
<a href="#">CJ 360</a>	Juvenile Justice	3.0
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">SOC 250</a>	Research Methods I	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
or		
<a href="#">MATH 101</a>	Introduction to Math Analysis	4.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 6</b>		<b>Credits</b>
<a href="#">CJ 276</a>	Introduction to Computer Crime	3.0
<a href="#">PHIL 101</a>	Introduction to Western Philosophy	3.0
<a href="#">SOC 364</a>	Computer-Assisted Data Analysis	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
or		
<a href="#">MATH 102</a>	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>	<i>19.0</i>
<b>Term 7</b>		<b>Credits</b>
<a href="#">CJ 375</a>	Criminal Procedure	3.0
<a href="#">CJ 390</a>	Internships in Criminal Justice	3.0
<a href="#">COM 375</a>	Grant Writing	3.0
	Free elective	3.0
	Fine arts elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">CJ 374</a>	Restorative Justice	3.0
<a href="#">PSCI 329</a>	Theories of Justice	3.0
<a href="#">PSY 101</a>	General Psychology I	3.0
<a href="#">SOC 320</a>	Sociology of Deviant Behavior	3.0
	Social science course (See degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">SOC 460</a>	Contemporary Social Theory	3.0
<a href="#">ANTH 312</a>	Approaches to Intercultural Behavior	3.0
or		
<a href="#">SOC 210</a>	Race and Ethnic Relations	3.0
or		
<a href="#">COM 345</a>	Intercultural Communication	3.0
	Criminal Justice specialization courses (See degree requirements for list)	6.0
	Free elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">BLAW 342</a>	Criminal Law	4.0
<a href="#">CJ 376</a>	Sentencing: The History, Necessity and Morality of Punishment in America	3.0
<a href="#">PHIL 330</a>	Ethical Issues in Criminal Justice	3.0
	Free elective	4.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 11</b>		<b>Credits</b>
	Criminal Justice specialization courses (See degree requirements for list)	9.0
	Free electives	7.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 12</b>		<b>Credits</b>
	Criminal Justice specialization courses (See degree requirements for list)	6.0
	Free electives	10.0
	<i>Term Credits</i>	<i>16.0</i>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

# Drexel University

## Catalog 2009/2010

### 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	<b>Criminology</b>	3.0
CJ 206	<b>Criminal Justice</b>	3.0
CJ 274	<b>Sex, Violence &amp; Crime on the Internet</b>	3.0
CJ 276	<b>Computer Crime</b>	3.0
CJ 365	<b>Computer Investigations and the Law</b>	3.0
CJ 377	<b>Intellectual Property Theft</b>	3.0

#### Additional Elective Courses

**6.0  
Credits**

Students select two courses from the following list:

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

### 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	<b>Criminology</b>	3.0
CJ 206	<b>Criminal Justice</b>	3.0
CJ 360	<b>Juvenile Justice</b>	3.0
SOC 320	<b>Deviant Behavior</b>	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	<b>Race and Ethnic Relations</b>	3.0
COM 345	<b>Intercultural Communication</b>	3.0
or		
ANTH 312	<b>Intercultural Behavior</b>	3.0

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

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

# Drexel University

## Catalog 2009/2010

### 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.

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

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

# Drexel University

## Catalog 2009/2010

### **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 2009/2010

### English

*Bachelor of Arts Degree : 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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

<b>College requirements*</b>	<b>44.0 - 45.0 Credits</b>
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#### Foreign language courses

<b>Any two (2) consecutive foreign language courses (completing level 201)</b>	8.0
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#### Humanities and fine arts: four (4) of the following courses

ARTH 101	<b>History of Art I: Ancient to Medieval</b>	3.0
ARTH 102	<b>History of Art II: Renaissance to Modern</b>	3.0
ARTH 103	<b>History of Art III: Early Modern to Postmodernism</b>	3.0
DANC 201	<b>Dance Appreciation</b>	3.0
DANC 210	<b>Introduction to Dance</b>	3.0
DANC 220	<b>History of Dance</b>	3.0
DANC 325	<b>20th-Century Dance History</b>	3.0
FMST 150	<b>American Classic Cinema</b>	3.0
FMVD 230	<b>Basic Filmmaking</b>	3.0
FMST 250	<b>The Documentary Tradition</b>	3.0
FMST 355	<b>Contemporary Cinema</b>	3.0
HIST 161	<b>Themes in World Civilization I</b>	3.0
HIST 162	<b>Themes in World Civilization II</b>	3.0
HIST 163	<b>Themes in World Civilization III</b>	3.0
MUSC 130	<b>Introduction to Music</b>	3.0
MUSC 231 WI	<b>Music History I</b>	3.0
MUSC 232	<b>Music History II</b>	3.0
MUSC 236	<b>Rock Music Through the Mid-60s</b>	3.0
MUSC 238	<b>Rock Music Since the Mid-60s</b>	3.0
PHIL 101	<b>Introduction to Western Philosophy</b>	3.0
PHIL 105	<b>Critical Reasoning</b>	3.0
PHIL 121	<b>History of Ideas</b>	3.0
PHIL 211	<b>Metaphysics</b>	3.0

PHIL 221	<b>Epistemology</b>	3.0
PHIL 231	<b>Aesthetics</b>	3.0
PHIL 251	<b>Ethics</b>	3.0
PHTO 110	<b>Basic Photography</b>	3.0
PHTO 115	<b>Principles of Photography</b>	3.0
THTR 115	<b>Theatrical Experience</b>	3.0
THTR 221	<b>Theatre History I</b>	3.0
THTR 222	<b>Theatre History II</b>	3.0

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

ANTH 110	<b>The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology</b>	3.0
ANTH 210	<b>Worldview: Science, Religion, Magic</b>	3.0
COM 150	<b>Mass Media and Society</b>	3.0
COM 230	<b>Techniques of Speaking</b>	3.0
PSCI 100	<b>Introduction to Political Science</b>	4.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSY 101	<b>General Psychology</b>	3.0
PSY 120	<b>Developmental Psychology</b>	3.0
PSY 140	<b>Approaches to Personality</b>	3.0
SOC 101	<b>Introduction to Sociology</b>	3.0
SOC 115	<b>Social Problems</b>	3.0
SOC 120	<b>Sociology of the Family</b>	3.0

**International Studies : two (2) of the following courses:**

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

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

AFAS 101	<b>Intellectual/Cultural Foundations of the African-American Experience</b>	3.0
AFAS 201	<b>African-American Aesthetics</b>	
ANTH 101	<b>Cultural Diversity: Introduction to Cultural Anthropology</b>	3.0
ANTH 215	<b>Anthropology of Gender</b>	3.0
COM 345	<b>Intercultural Communication</b>	3.0
ENGL 345	<b>American Ethnic Literature</b>	3.0
ENGL 350	<b>Jewish Literature and Civilization</b>	3.0
ENGL 355 WI	<b>Women and Literature</b>	3.0
ENGL 365 WI	<b>Topics in African American Literature</b>	3.0
HIST 212	<b>Themes in African-American History</b>	3.0
HIST 214	<b>The Civil Rights Movement in the US</b>	3.0
HIST 215	<b>American Slavery</b>	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	British Literature I	3.0
ENGL 212 WI	British Literature II	3.0
ENGL 315 WI	Shakespeare	3.0
ENGL 490 (WI)	Seminar in English/American Literature	4.0
ENGL 492 (WI)	Seminar in World Literature	4.0
ENGL 499 WI	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	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
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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	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	Fundamentals of Journalism	3.0
COM 300	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	Writing/Peer Tutor Workshop	3.0
WRIT 220	Creative Non-Fiction	3.0
WRIT 225	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 294	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 345	Philosophy of Medicine	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0

*Writing-Intensive Course Requirements*

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

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

**BA English**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">HIST 161</a> Themes in World Civilization I	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course (1st consecutive course)	4.0
Math elective	4.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 2</b>	
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">HIST 162</a> Themes in World Civilization II	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course (2nd consecutive course, 201-level)	4.0
Math elective	4.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 3</b>	
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">MUSC 130</a> Introduction to Music	3.0
<a href="#">PHIL 101</a> Introduction to Western Philosophy	3.0
<a href="#">PSY 101</a> General Psychology I	3.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 4</b>	
<a href="#">ENGL 205</a> American Literature I	3.0
<a href="#">ENGL 211</a> British Literature I	3.0
<a href="#">PHIL 105</a> Critical Reasoning	3.0
Lab Science elective	3.0
Social and Behavioral Sciences elective	3.0-4.0
<i>Term Credits</i>	<b>15.0-16.0</b>
<b>Term 5</b>	
<a href="#">ENGL 206</a> American Literature II	3.0
<a href="#">ENGL 212</a> British Literature II	3.0
Diversity studies elective	3.0
International studies elective	3.0
Lab Science elective	3.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 6</b>	
<a href="#">COM 260</a> Fundamentals of Journalism	3.0
<a href="#">ENGL 202</a> Romanticism to Modernism	3.0
<a href="#">ENGL 203</a> Post-Colonial Literature I	3.0
<a href="#">SOC 210</a> Race and Ethnic Relations	3.0
<a href="#">WMST 101</a> Introduction to Women's Studies	3.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 7</b>	
<a href="#">COM 300</a> Computer-Assisted Journalism	3.0
<a href="#">ENGL 207</a> African American Literature	3.0
<a href="#">ENGL 216</a> Readings in Drama	3.0
<a href="#">PHIL 381</a> Philosophy in Literature	3.0

	Science, Technology and Human Affairs elective (Any HIST course 281-294)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">COM 340</a>	Desktop Publishing	3.0
<a href="#">ENGL 315</a>	Shakespeare	3.0
<a href="#">WRIT 220</a>	Creative Nonfiction Writing	3.0
	Free electives	6.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">WRIT 310</a>	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>
<b>Term 10</b>		<b>Credits</b>
<a href="#">ENGL 300</a>	Literature and Science	3.0
<a href="#">ENGL 323</a>	Literature and Other Arts	3.0
<a href="#">ENGL 360</a>	Literature and Society	3.0
	Free electives	6.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">HIST 281</a>	History of Science II	3.0
<a href="#">PHIL 361</a>	Philosophy of Science	3.0
<a href="#">ENGL 492</a>	Seminar in World Literature	4.0
or		
<a href="#">ENGL 490</a>	Seminar in English/American Literature	4.0
	Free electives	6.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">ENGL 499</a>	Senior Project in English	4.0
<a href="#">WRIT 312</a>	The Practice of Professional Writing	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>16.0</i>
	<b>Total Credits (minimum)</b>	<b>182.0-183.0</b>

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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:

<b>Requirements</b>		<b>24.0</b>
<b>Students select three (3) of the following courses:</b>		<b>9.0</b>
ENGL 200 WI	<b>Classical to Medieval Literature</b>	3.0
ENGL 201	<b>Renaissance to the Enlightenment</b>	3.0
ENGL 202 WI	<b>Romanticism to Modernism</b>	3.0
ENGL 203 WI	<b>Post-Colonial Literature I</b>	3.0
ENGL 204	<b>Post-Colonial Literature II</b>	3.0
ENGL 205 WI	<b>American Literature I</b>	3.0
ENGL 206 WI	<b>American Literature II</b>	3.0
ENGL 207 WI	<b>African American Literature</b>	3.0
ENGL 211 WI	<b>British Literature I</b>	3.0
ENGL 212	<b>British Literature II</b>	3.0
ENGL 214	<b>Readings in Fiction</b>	3.0
ENGL 215 WI	<b>Readings in Poetry</b>	3.0
ENGL 216 WI	<b>Readings in Drama</b>	3.0
<b>Students select two (2) of the following courses:</b>		<b>6.0</b>
WRIT 220	<b>Creative Non-Fiction Writing</b>	3.0
WRIT 225	<b>Creative Writing</b>	3.0
WRIT 301 WI	<b>Writing Poetry</b>	3.0
WRIT 302	<b>Writing Fiction</b>	3.0
WRIT 303	<b>Writing Humor and Comedy</b>	3.0
WRIT 304	<b>Special Topics: (Humor, Autobiography, Writing about the Media)</b>	3.0
WRIT 306	<b>Writing about the Media</b>	3.0
WRIT 310	<b>Literary Editing and Publishing</b>	3.0
WRIT 312	<b>Practice of Professional Writing</b>	3.0
WRIT 400	<b>Writing in Cyberspace</b>	4.0
WRIT 405	<b>Internship in Publishing</b>	2.0
<b>Students select three (3) of the following courses:</b>		<b>9.0</b>
ENGL 300 WI	<b>Literature and Science</b>	3.0
ENGL 302	<b>Environmental Literature</b>	3.0
ENGL 303	<b>Science Fiction</b>	3.0
ENGL 305	<b>The Mystery Story</b>	3.0
ENGL 306	<b>Literature of Baseball</b>	3.0

ENGL 307	<b>Literature of the Holocausts</b>	3.0
ENGL 310 WI	<b>Period Studies</b>	3.0
ENGL 315 WI	<b>Shakespeare</b>	3.0
ENGL 320 WI	<b>Major Authors</b>	3.0
ENGL 325	<b>Topics in World Literature</b>	3.0
ENGL 330	<b>The Bible as Literature</b>	3.0
ENGL 335	<b>Mythology</b>	3.0
ENGL 345	<b>American Ethnic Literature</b>	3.0
ENGL 350	<b>Jewish Literature and Civilization</b>	3.0
ENGL 355 WI	<b>Women and Literature</b>	3.0
ENGL 360	<b>Literature and Society</b>	3.0
ENGL 365	<b>Topics in African American Literature</b>	3.0
ENGL 370	<b>Topics in Literature and Medicine</b>	3.0
ENGL 395	<b>Special Studies in Literature</b>	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.

### 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](http://www.drexel.edu/coas/engphil)



### **Certificate in Writing and Publishing**

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

- Professional Writing and Publishing
- Creative Writing and Publishing
- Comprehensive Writing and Publishing

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

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

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

### 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	<b>Business Communication</b>	3.0
COM 350	<b>Message Design and Evaluation</b>	3.0
or		
COM 375 WI	<b>Grant Writing</b>	3.0

Students select one of the following professional writing courses:

COM 320	<b>Science Writing</b>	3.0
COM 420	<b>Technical Editing</b>	3.0
COM 380	<b>Special Topics (as appropriate, Copy Editing for example)</b>	3.0

Students select one of the following publishing courses:

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

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

COM 260	<b>Fundamentals of Journalism</b>	3.0
COM 300	<b>On-line Journalism</b>	3.0
COM 315	<b>Advanced Journalism: Investigative Reporting</b>	3.0
COM 390	<b>Global Journalism</b>	3.0
WRIT 220	<b>Creative Non-Fiction</b>	3.0
WRIT 225	<b>Creative Writing</b>	3.0
WRIT 301 WI	<b>Writing Poetry</b>	3.0
WRIT 302	<b>Writing Fiction</b>	3.0

WRIT 303	Writing Humor and Comedy	3.0
WRIT 304	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

### Technical Communication and Publishing

#### Required courses

COM 310	Technical Communication	3.0
COM 375 WI	Grant Writing	3.0

Students select one of the following professional writing courses:

COM 320	Science Writing	3.0
COM 350	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	Fundamentals of Journalism	3.0
COM 300	On-line Journalism	3.0
COM 390	Global Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
WRIT 220	Creative Non-Fiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 302	Writing Fiction	3.0
WRIT 303	Writing Humor and Comedy	3.0
WRIT 304	Special Topics in Writing	3.0
WRIT 306	Writing About the Media	3.0

### Journalism

#### Required course:

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

COM 300	On-line Journalism	3.0
COM 315	Advanced Journalism: Investigative Reporting	3.0
COM 390	Global Journalism	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 270	<b>Business Communication</b>	3.0
<b>or</b>		
COM 310	<b>Technical Communication</b>	3.0
COM 320	<b>Science Writing</b>	3.0
COM 375 WI	<b>Grant Writing</b>	3.0
COM 420	<b>Technical Editing</b>	3.0
WRIT 220	<b>Creative Non-Fiction</b>	3.0
WRIT 225	<b>Creative Writing</b>	3.0
WRIT 301 WI	<b>Writing Poetry</b>	3.0
WRIT 302	<b>Writing Fiction</b>	3.0
WRIT 303	<b>Writing Humor and Comedy</b>	3.0
WRIT 304	<b>Special Topics in Writing</b>	3.0
WRIT 306	<b>Writing About the Media</b>	3.0

### 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	<b>Creative Non-Fiction</b>	3.0
WRIT 225	<b>Creative Writing</b>	3.0
WRIT 301 WI	<b>Writing Poetry</b>	3.0
WRIT 302	<b>Writing Fiction</b>	3.0
WRIT 303	<b>Writing Humor and Comedy</b>	3.0
WRIT 304	<b>Special Topics in Writing</b>	3.0
WRIT 306	<b>Writing About the Media</b>	3.0

**Students select one of the following publishing courses:**

WRIT 310	<b>Literary Editing and Publishing</b>	3.0
WRIT 400	<b>Writing in Cyberspace</b>	4.0
WRIT 405	<b>Internship in Literary Publishing*</b>	2.0
COM 335	<b>Electronic Publishing</b>	3.0
COM 340	<b>Desktop Publishing</b>	3.0
COM 350	<b>Message Design and Evaluation</b>	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	<b>Fundamentals of Journalism</b>	3.0
COM 300	<b>On-line Journalism</b>	3.0
COM 390	<b>Global Journalism</b>	3.0
COM 315	<b>Advanced Journalism: Investigative Reporting</b>	3.0
COM 270	<b>Business Communication</b>	3.0
	<b>or</b>	
COM 310	<b>Technical Communication</b>	3.0
COM 320	<b>Science Writing</b>	3.0
COM 350	<b>Message Design and Evaluation</b>	3.0
COM 420	<b>Technical Editing</b>	3.0
COM 375 WI	<b>Grant Writing</b>	3.0

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

or

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

#### Professional writing

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

or

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

#### Journalism

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

COM 300	<b>On-line Journalism</b>	3.0
COM 315	<b>Advanced Journalism</b>	3.0
COM 390	<b>Global Journalism</b>	3.0

# Drexel University

## Catalog 2009/2010

### **Environmental Science**

*Bachelor of Science Degree: 185.5 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.



# Drexel University

## Catalog 2009/2010

### Environmental Science

*Bachelor of Science Degree: 185.5 credits*

Degree requirements (incoming students, 2009/2010)

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.

<b>Humanities and Social Science</b>		<b>34.0</b>
		<b>Credits</b>
ENGL 101	<b>Expository Writing and Reading</b>	3.0
ENGL 102	<b>Persuasive Writing and Reading</b>	3.0
ENGL 103	<b>Analytical Writing and Reading</b>	3.0
COM 230	<b>Techniques of Speaking</b>	3.0
COM 310 WI	<b>Technical Communication</b>	3.0
ECON 201	<b>Principles of Microeconomics</b>	4.0
ECON 202	<b>Principles of Macroeconomics</b>	4.0
ENVP 360	<b>Environmental Movements in America</b>	3.0
ENVP 365	<b>Introduction to Environmental Policy</b>	3.0
PHIL 341	<b>Philosophy of the Environment</b>	3.0
	<b>or</b>	
PHIL 251	<b>Ethics</b>	
UNIV 101	<b>The Drexel Experience</b>	2.0
	<b>Humanities electives</b>	6.0
<b>Bioscience</b>		<b>16.5- 18.5</b>
		<b>Credits</b>
BIO 121	<b>Physiology and Nutrition</b>	4.5
BIO 122	<b>Cells and Genetics</b>	4.5
BIO 123	<b>Organismal Diversity and Ecology</b>	4.5
BIO 221	<b>Microbiology</b>	5.0
	<b>or</b>	
ENVS 316	<b>Sanitary Microbiology</b>	3.0
<b>Chemical and Physical Sciences</b>		<b>40.0</b>
		<b>Credits</b>
CHEM 101	<b>General Chemistry I</b>	3.5
CHEM 102	<b>General Chemistry II</b>	4.5
CHEM 103	<b>General Chemistry III</b>	5.0
CHEM 241	<b>Organic Chemistry</b>	4.0
CHEM 242	<b>Organic Chemistry II</b>	4.0
CHEM 244	<b>Organic Chemistry I Laboratory</b>	3.0
PHEV 145	<b>Weather 1: Climate and Global Change</b>	4.0
PHYS 152	<b>Introductory Physics I</b>	4.0
PHYS 153	<b>Introductory Physics II</b>	4.0
PHYS 154	<b>Introductory Physics III</b>	4.0

<b>Mathematics and Statistics</b>		<b>18.0 Credits</b>
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
<b>or</b>		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
MATH 239	Intermediate Calculus	4.0

<b>Environmental Science Core Requirements</b>		<b>39.0 Credits</b>
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
<b>or</b>		
ENVS 412	Biophysical Ecology	3.0
ENVS 441	Issues in Global Change I: Seminar	2.0
ENVS 442	Issues in Global Change II: Research	2.0
ENVS 460	Evolution	3.0

<b>Environmental Science Electives*</b>	<b>24.0 Credits</b>
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Each student selects 24 credits of Environmental Science electives from the following areas:

#### **Taxonomy Electives**

BIO 254	Invertebrate Morphology and Physiology	5.0
BIO 256	Vertebrate Morphology and Physiology	5.0
BIO 260	Plant Biology I	4.0
BIO 261	Plant Biology II	4.0
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 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	<b>Ecology of the NJ Pine Barrens</b>	5.0
ENVS 388	<b>Marine Field Methods</b>	5.0
ENVS 390	<b>Marine Ecology</b>	3.0

#### **Paleo-Geology Electives**

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

#### **Environmental Health Electives**

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

#### **Environmental Policy Electives**

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

#### **Chemical and Physical Sciences Electives**

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

#### **Equatorial Guinea: Bioko Island Study Abroad Program \*\***

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

#### **Free electives**

<b>Free electives</b>	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. For more information on writing-intensive courses, see the Drexel University Writing Program's Writing-Intensive Course page.

## Recommended Plan Of Study

### BS Environmental Science, Co-op 4 YR UG Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology and Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 121</a>	Calculus I	4.0
or		
<a href="#">MATH 101</a>	Introduction to Analysis I	4.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 2</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	2.0
<a href="#">MATH 122</a>	Calculus II	4.0
or		
<a href="#">MATH 102</a>	Introduction to Analysis II	4.0
	<i>Term Credits</i>	<i>18.0</i>
<b>Term 3</b>		<b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity & Ecology	4.5
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 239</a>	Mathematics for the Life Sciences	4.0
or		
<a href="#">MATH 123</a>	Calculus III	4.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">ENVS 230</a>	General Ecology	3.0
<a href="#">ENVS 272</a>	Physical Geology	4.0
	Humanities/Social Science elective	3.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Laboratory I	3.0
<a href="#">ENVS 260</a>	Environmental Science and Society I	3.0
<a href="#">ENVS 284</a>	Physiological and Population Ecology	3.0
<a href="#">ENVS 285</a>	Population Ecology Lab	2.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 6</b>		<b>Credits</b>
<a href="#">ECON 201</a>	Principles of Microeconomics	4.0
<a href="#">PHEV 145</a>	Weather I: Climate and Global Change	4.0
<a href="#">PHYS 152</a>	Introductory Physics I	4.0
	Environmental Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 7</b>		<b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">ECON 202</a>	Principles of Macroeconomics	4.0

<a href="#">PHYS 153</a>	Introductory Physics II	4.0
	Free elective	3.0
	Environmental Science elective (See degree requirements)	3.0
	<b>Term Credits</b>	<b>17.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ENVP 360</a>	Environmental Movements in America	3.0
<a href="#">ENVS 286</a>	Community and Ecosystem Ecology	3.0
<a href="#">ENVS 287</a>	Community Ecology Lab	2.0
<a href="#">PHYS 154</a>	Introductory Physics III	4.0
<a href="#">ENVS 316</a>	Sanitary Microbiology	3.0
or		
<a href="#">BIO 221</a>	Microbiology	5.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">COM 310</a>	Technical Communication	3.0
<a href="#">ENVP 365</a>	Introduction to Environmental Policy Analysis	3.0
<a href="#">PHIL 251</a>	Ethics	3.0
or		
<a href="#">PHIL 341</a>	Philosophy of the Environment	3.0
<a href="#">ENVS 410</a>	Physiological Ecology	3.0
or		
<a href="#">ENVS 412</a>	Biophysical Ecology	3.0
	Environmental Science elective (See degree requirements)	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">ENVS 338</a>	Biodiversity and Conservation	3.0
<a href="#">MATH 410</a>	Scientific Data Analysis I	3.0
	Free elective	3.0
	Environmental Science elective (See degree requirements)	3.0
	Humanities/Social Science elective	3.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">ENVS 441</a>	Issues in Global Change I: Seminar	2.0
<a href="#">MATH 411</a>	Scientific Data Analysis II	3.0
	Free elective	3.0
	Environmental Science electives (See degree requirements)	6.0
	<b>Term Credits</b>	<b>14.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">ENVS 442</a>	Issues in Global Change II: Research	2.0
<a href="#">ENVS 460</a>	Evolution	3.0
	Free elective	3.0
	Environmental Science electives (See degree requirements)	6.0
	<b>Term Credits</b>	<b>14.0</b>
	<b>Total Credits (minimum)</b>	<b>184.5</b>

## Recommended Plan Of Study

### BS Environmental Science, Non Co-op 4 YR UG No Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology of Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 121</a>	Calculus I	4.0
or		
<a href="#">MATH 101</a>	Introduction to Math Analysis I	4.0
	<i>Term Credits</i>	<i>16.0</i>
 <b>Term 2</b>		 <b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	2.0
<a href="#">MATH 122</a>	Calculus II	4.0
or		
<a href="#">MATH 102</a>	Introduction to Math Analysis II	4.0
	<i>Term Credits</i>	<i>18.0</i>
 <b>Term 3</b>		 <b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity and Ecology	4.5
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 239</a>	Mathematics for the Life Sciences	4.0
or		
<a href="#">MATH 123</a>	Calculus III	4.0
	<i>Term Credits</i>	<i>16.5</i>
 <b>Term 4</b>		 <b>Credits</b>
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">ENVS 230</a>	General Ecology	3.0
<a href="#">ENVS 272</a>	Physical Geology	4.0
	Humanities/Social Science elective	3.0
	<i>Term Credits</i>	<i>14.0</i>
 <b>Term 5</b>		 <b>Credits</b>
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">CHEM 244</a>	Organic Chemistry Lab I	3.0
<a href="#">ENVS 260</a>	Environmental Science and Society I	3.0
<a href="#">ENVS 284</a>	Physiological and Population Ecology	3.0
<a href="#">ENVS 285</a>	Population Ecology Lab	2.0
	<i>Term Credits</i>	<i>15.0</i>
 <b>Term 6</b>		 <b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">PHEV 145</a>	Weather I: Climate and Global Change	4.0
<a href="#">PHIL 341</a>	Philosophy of the Environment	3.0
or		
<a href="#">PHIL 251</a>	Ethics	3.0
	Free elective	3.0
	Environmental Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>16.0</i>

<b>Term 7</b>		<b>Credits</b>
<a href="#">ENVP 360</a>	Environmental Movements in America	3.0
<a href="#">ENVS 286</a>	Community and Ecosystem Ecology	3.0
<a href="#">ENVS 287</a>	Community Ecology Lab	2.0
<a href="#">PHYS 152</a>	Introductory Physics I	4.0
<a href="#">ENVS 316</a>	Sanitary Microbiology	3.0
or		
<a href="#">BIO 221</a>	Microbiology	5.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">COM 310</a>	Technical Communication	3.0
<a href="#">ECON 201</a>	Principles of Microeconomics	4.0
<a href="#">ENVP 365</a>	Introduction to Environmental Policy Analysis	3.0
<a href="#">PHYS 153</a>	Introductory Physics II	4.0
<a href="#">ENVS 412</a>	Biophysical Ecology	3.0
or		
<a href="#">ENVS 410</a>	Physiological Ecology	3.0
	<i>Term Credits</i>	<i>17.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ECON 202</a>	Principles of Macroeconomics	4.0
<a href="#">PHYS 154</a>	Introductory Physics III	4.0
	Free elective	3.0
	Environmental Science elective (See degree requirements)	3.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">BIO 338</a>	Biodiversity and Conservation	3.0
<a href="#">MATH 410</a>	Scientific Data Analysis I	3.0
	Environmental Science electives (See degree requirements)	6.0
	Humanities/Social Science elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">ENVS 441</a>	Issues in Global Change I: Seminar	2.0
<a href="#">MATH 411</a>	Scientific Data Analysis II	3.0
	Free elective	3.0
	Environmental Science electives (See degree requirements)	6.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">ENVS 442</a>	Issues in Global Change II: Research	2.0
<a href="#">ENVS 460</a>	Evolution	3.0
	Free elective	3.0
	Environmental Science electives (See degree requirements)	6.0
	<i>Term Credits</i>	<i>14.0</i>
	<b>Total Credits (minimum)</b>	<b>184.5</b>



### 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.

<b>Required Courses</b>		<b>26.0</b>
ENVS 230	<b>General Ecology</b>	3.0
ENVS 260	<b>Environmental Science and Society</b>	3.0
ENVS 284 WI	<b>Physiological and Population Ecology</b>	3.0
ENVS 285	<b>Population Ecology Laboratory</b>	2.0
ENVS 286 WI	<b>Community and Ecosystem Ecology</b>	3.0
ENVS 287	<b>Community Ecology Laboratory</b>	2.0
ENVS 338	<b>Biodiversity and Conservation</b>	3.0
ENVS 460	<b>Evolution</b>	3.0
PHEV 145	<b>Weather 1: Climate and Global Change</b>	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	<b>Human Physiology I</b>	4.0
ENVS 436	<b>Principles of Toxicology I</b>	3.0
ENVS 331	<b>Industrial Hygiene I</b>	3.0
ENVS 431	<b>Epidemiology</b>	3.0
ENVS 321	<b>Environmental Health</b>	3.0
	<b>A statistics course</b>	3.0

**Students select:**

BIO 221	<b>Microbiology</b>	5.0
<b>or</b>		
ENVS 316	<b>Sanitary Microbiology</b>	3.0
<b>and</b>	<b>Environmental Health (ENVS) elective</b>	3.0

# Drexel University

## Catalog 2009/2010

### **Certificate in Toxicology and Industrial Hygiene**

*12.0 credits*

This online certificate program is specifically designed for students at the post-baccalaureate level in industrial or governmental settings. The curriculum provides a strong foundation in both toxicology and industrial hygiene to enhance the student's on-the-job performance in the areas of health and safety.

Visit the Drexel University e-Learning site for additional information about the Certificate in Toxicology and Industrial Hygiene program.

#### **Required courses**

ENVS 531	<b>Industrial Hygiene I</b>	3.0
ENVS 532	<b>Industrial Hygiene II</b>	3.0
ENVS 636	<b>Principles of Toxicology I</b>	3.0
ENVS 637	<b>Principles of Toxicology II</b>	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.

### **History & Politics**

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, as well as a dual major 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.

# Drexel University

## Catalog 2009/2010

### History

*Bachelor of Arts Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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 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 492	Senior Seminar in History	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
PSCI 150	International Politics	4.0
Any 200-level European History course		3.0
Any History of Latin America, Africa, or Asia		3.0

#### History Electives\*

30.0 Credits

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

#### Free Electives

32.0- 36.0.0 Credits

**BA History**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">HIST 161</a> Themes in World Civilization I	3.0
<a href="#">MATH 100</a> Fundamentals of Mathematics	3.0
<a href="#">PSCI 110</a> American Government	4.0
<a href="#">UNIV 101</a> The Drexel Experience	2.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 2</b>	
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">HIST 162</a> Themes World Civilization II	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course (103-level or higher)	4.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>18.0-19.0</i>
<b>Term 3</b>	
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">HIST 163</a> Themes World Civilization III	3.0
<a href="#">PSCI 120</a> History of Political Thought	4.0
Foreign language course (201-level or higher)	4.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>17.0-18.0</i>
<b>Term 4</b>	
<a href="#">HIST 201</a> 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
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 5</b>	
<a href="#">HIST 202</a> US History, 1815-1900	3.0
<a href="#">PSCI 140</a> Introduction to Comparative Political Analysis	4.0
Free elective	3.0
Humanities/Fine Arts elective	3.0
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	<i>16.0</i>
<b>Term 6</b>	
<a href="#">HIST 203</a> US History since 1900	3.0
<a href="#">PSCI 150</a> International Politics	4.0
Diversity studies elective	3.0
Free elective	3.0
International studies elective	3.0
<i>Term Credits</i>	<i>16.0</i>
<b>Term 7</b>	
<a href="#">HIST 296</a> Research Methods in History	3.0
Free elective	3.0
Humanities/Fine Arts elective	3.0

	International studies elective	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">HIST 301</a>	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>	<b>18.0</b>
<b>Term 9</b>		<b>Credits</b>
	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>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">HIST 492</a>	Senior Seminar in History	3.0
	Free elective	3.0
	History electives (200-level and above HIST courses)	6.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
	Free electives	6.0
	History electives (200-level and above HIST courses)	6.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free electives	9.0
	History electives (200-level and above HIST courses)	6.0
	<i>Term Credits</i>	<b>15.0</b>
	<b>Total Credits (minimum)</b>	<b>184.0-186.0</b>

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## Catalog 2009/2010

### History

*Bachelor of Science Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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
<b>or</b>		
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 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
<b>or</b>		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
<b>or</b>		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
<b>or</b>		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

### Foundation requirements

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
<b>or</b>		
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
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 204	Post-Colonial Literature II:	3.0

**Africa/Asia/Caribbean/Japan/Middle East**

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 492	Senior Seminar in History	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
PSCI 150	International Politics	4.0
	Any 200-level European History course	3.0
	Any History of Latin America, Africa, or Asia	3.0

**History Electives\* 30.0 Credits**

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

**Free Electives 40.0 Credits**

**BS History**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

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

	Research Methods in History	3.0
<a href="#">PHIL 105</a>	Critical Reasoning	3.0
	Free electives	6.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">HIST 301</a>	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
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
	Free electives	9.0
	History electives (200-level and above HIST courses)	6.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">HIST 492</a>	Senior Seminar	3.0
	Free elective	3.0
	History electives (200-level and above HIST courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
	Free electives	6.0
	History electives (200-level and above HIST courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free electives	6.0
	History electives (200-level and above HIST courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

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### Minor in American Studies

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

Students are required to take 25 credits of coursework from the following categories:

#### Required courses

PSCI 110	<b>American Government*</b>	4.0
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#### One of the following courses: **3.0**

HIST 201	<b>US History to 1815</b>	3.0
HIST 202	<b>US History, 1815-1900</b>	3.0
HIST 203	<b>US History since 1900</b>	3.0

#### Two US History courses **6.0**

Some examples of US History courses include the following:

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

#### Two US Government or US Politics courses **6.0**

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

PSCI 210	<b>American Government II</b>	3.0
PSCI 220	<b>Constitutional Law I: Separation of Powers</b>	3.0
PSCI 313	<b>State and Local Government</b>	3.0
PSCI 330	<b>Public Opinion and Propaganda</b>	3.0
PSCI 363	<b>Constitutional Law II</b>	3.0
PSCI 364	<b>Constitution Law II</b>	3.0
PSCI 365	<b>Politics, Law, and Justice</b>	3.0

#### Two of the following courses **6.0**

ENGL 205 WI	<b>American Literature I</b>	3.0
ENGL 206 WI	<b>American Literature II</b>	3.0
ENGL 245	<b>American Ethnic Literature</b>	3.0
MUSC 336	<b>History of Jazz</b>	3.0
MUSC 338 WI	<b>American Popular Music</b>	3.0
SOC 210	<b>Race and Ethnic Relations</b>	3.0
SOC 341	<b>Environmental Movements in America</b>	3.0

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

### 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	Music History II	3.0

# Drexel University

## Catalog 2009/2010

### Minor in History

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

#### Required courses

<b>One of the following history sequences:</b>		<b>9.0</b>
HIST 161	<b>Themes in World Civilization I</b>	3.0
HIST 162	<b>Themes in World Civilization II</b>	3.0
HIST 163	<b>Themes in World Civilization III</b>	3.0
<b>or</b>		
HIST 201	<b>US History to 1815</b>	3.0
HIST 202	<b>US History, 1815-1900</b>	3.0
HIST 203	<b>US History since 1900</b>	3.0
<b>History electives</b>		<b>15.0</b>
<b>15.0 credits of any additional 200-level or higher HIST courses.</b>		



### 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

<b>One of the following survey courses</b>		<b>3.0</b>
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

<b>Two Upper-Level World History courses</b>		<b>6.0</b>
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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

<b>Three International Political Science courses</b>		<b>9.0-10.0</b>
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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

<b>Two courses, one course each from two of the following areas:</b>		<b>6.0</b>
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ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II:	3.0

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

### **History & Politics**

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, as well as a dual major 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.

# Drexel University

## Catalog 2009/2010

### History & Political Science

*Bachelor of Arts Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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 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 & Political Science Requirements		73.0 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 492	Senior Seminar in History	3.0
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
PSCI 211	American Government II	4.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 230	Research Methods in Political Science I	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
Any 200-level European History course		3.0
Any History of Latin America, Africa, or Asia		3.0

<b>History &amp; Politics Electives</b>		<b>30.0 Credits</b>
HIST	15.0 credits of History courses (200-level and above)	15.0
PSCI	15.0 credits of Political Science courses (300-level and above)	15.0
<b>Free Electives</b>		<b>12.0 Credits</b>

Recommended Plan Of Study

**BA History & Political Science Dual Major**  
5 YR UG Co-op Concentration

	Credits
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">HIST 161</a> Themes World Civilization I	3.0
<a href="#">MATH 100</a> Fundamentals of Mathematics	3.0
<a href="#">PSCI 110</a> American Government I	4.0
<a href="#">PSCI 150</a> International Politics	4.0
<a href="#">UNIV 101</a> The Drexel Experience	2.0
<i>Term Credits</i>	<i>19.0</i>
<b>Term 2</b>	
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">HIST 162</a> Themes World Civilization II	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">PSCI 140</a> Introduction to Comparative Political Analysis	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course (103-level or higher)	4.0
<i>Term Credits</i>	<i>19.0</i>
<b>Term 3</b>	
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">HIST 163</a> Themes World Civilization III	3.0
<a href="#">PSCI 120</a> History of Political Thought	4.0
<a href="#">PSCI 130</a> Research Methods in Political Science I	4.0
Foreign language course (201-level or higher)	4.0
<i>Term Credits</i>	<i>18.0</i>
<b>Term 4</b>	
<a href="#">HIST 201</a> US History to 1815	3.0
Diversity studies elective	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>	<i>15.0-16.0</i>
<b>Term 5</b>	
<a href="#">HIST 202</a> US History, 1815-1900	3.0
<a href="#">PSCI 240</a> Comparative Government	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>	<i>15.0-16.0</i>
<b>Term 6</b>	
<a href="#">HIST 203</a> US History since 1900	3.0
<a href="#">PSCI 211</a> American Government II	4.0
Diversity studies elective	3.0
Humanities/Fine Arts elective	3.0
International studies elective	3.0
<i>Term Credits</i>	<i>16.0</i>
<b>Term 7</b>	
<a href="#">HIST 296</a> Research Methods in History	3.0
<a href="#">PSCI 220</a> Constitutional and Judicial Process	3.0
<a href="#">PSCI 230</a>	

	Research Methods in Political Science II	4.0
	History of Latin America, Africa, or Asia	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PSCI 250</a>	American Foreign Policy	3.0
	History elective (200-level and above HIST course)	3.0
	History of Europe course (200-level or higher)	3.0
	Humanities/Fine Arts elective	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">HIST 301</a>	The Study of History	3.0
<a href="#">PSCI 270</a>	Problems of Individual Liberty and Government Authority	3.0
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">HIST 492</a>	Senior Seminar	3.0
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	International studies elective	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>184.0-186.0</b>



# Drexel University

## Catalog 2009/2010

### History & Political Science

*Bachelor of Science Degree: 182.0 credits*

Degree requirements (incoming students, 2009/2010)

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
<b>or</b>		
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 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
<b>or</b>		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
<b>or</b>		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
<b>or</b>		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

#### Foundation requirements

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
<b>or</b>		
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
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0

MUSC 130	<b>Introduction to Music</b>	3.0
PSY 101	<b>General Psychology</b>	3.0
SOC 101	<b>Introduction to Sociology</b>	3.0
PHIL 105	<b>Critical Reasoning</b>	3.0
	<b>Any 4-credit statistics course</b>	4.0

<b>Core History &amp; Political Science Requirements</b>		<b>73.0 Credits</b>
HIST 161	<b>Themes in World Civilization I</b>	3.0
HIST 162	<b>Themes in World Civilization II</b>	3.0
HIST 163	<b>Themes in World Civilization III</b>	3.0
HIST 201	<b>US History to 1815</b>	3.0
HIST 202	<b>US History, 1815-1900</b>	3.0
HIST 203	<b>US History since 1900</b>	3.0
HIST 296	<b>Research Methods in History</b>	3.0
HIST 301	<b>The Study of History</b>	3.0
HIST 492	<b>Senior Seminar in History</b>	3.0
PSCI 110	<b>American Government I</b>	4.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSCI 130	<b>Research Methods in Political Science I</b>	4.0
PSCI 140	<b>Introduction to Comparative Political Analysis</b>	4.0
PSCI 150	<b>International Politics</b>	4.0
PSCI 211	<b>American Government II</b>	4.0
PSCI 220	<b>Constitutional Law I: Separation of Powers</b>	3.0
PSCI 230	<b>Research Methods in Political Science I</b>	4.0
PSCI 240	<b>Comparative Government</b>	3.0
PSCI 250	<b>American Foreign Policy</b>	3.0
PSCI 270	<b>Problems of Individual Liberty and Government Authority</b>	3.0
	<b>Any 200-level European History course</b>	3.0
	<b>Any History of Latin America, Africa, or Asia</b>	3.0

<b>History &amp; Politics Electives</b>		<b>30.0 Credits</b>
HIST	<b>15.0 credits of History courses (200-level and above)</b>	15.0
PSCI	<b>15.0 credits of Political Science courses (300-level and above)</b>	15.0

<b>Free Electives</b>		<b>16.0 Credits</b>
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Recommended Plan Of Study

**BS History & Political Science Dual Major**  
5 YR UG Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">HIST 161</a>	Themes World Civilization I	3.0
<a href="#">MATH 101</a>	Introduction to Analysis I	4.0
<a href="#">PSCI 110</a>	American Government I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	2.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">COM 150</a>	Mass Media and Society	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">HIST 162</a>	Themes World Civilization II	3.0
<a href="#">MATH 102</a>	Introduction to Analysis II	4.0
<a href="#">PSCI 140</a>	Introduction to Comparative Political Analysis	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>18.0</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">HIST 163</a>	Themes World Civilization III	3.0
<a href="#">PSCI 120</a>	History of Political Thought	4.0
<a href="#">PSCI 130</a>	Research Methods in Political Science I	4.0
<a href="#">PSY 101</a>	General Psychology I	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">ENGL 202</a>	Romanticism to Modernism	3.0
<a href="#">HIST 201</a>	US History to 1815	3.0
<a href="#">MUSC 130</a>	Introduction to Music	3.0
<a href="#">PSCI 150</a>	International Politics	4.0
	Science sequence course 1 (See degree requirements list)	4.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">ENGL 204</a>	Post-Colonial Literature II	3.0
<a href="#">HIST 202</a>	US History, 1815-1900	3.0
<a href="#">PSCI 240</a>	Comparative Government	3.0
	Statistics elective	4.0
	Science sequence course 2 (See degree requirements list)	4.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">ECON 201</a>	Principles of Microeconomics	4.0
<a href="#">HIST 203</a>	US History since 1900	3.0
<a href="#">PSCI 211</a>	American Government II	4.0
<a href="#">ANTH 110</a>	The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
or		
<a href="#">ANTH 101</a>	Introduction to Cultural Diversity	3.0
	<i>Term Credits</i>	<b>14.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">HIST 296</a>	Research Methods in History	3.0
<a href="#">PHIL 105</a>		

	Critical Reasoning	3.0
<a href="#">PSCI 220</a>	Constitutional and Judicial Process	3.0
<a href="#">PSCI 230</a>	Research Methods in Political Science II	4.0
	History of Latin America, Africa, or Asia	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ECON 202</a>	Principles of Macroeconomics	4.0
<a href="#">PSCI 250</a>	American Foreign Policy	3.0
	History elective (200-level and above HIST course)	3.0
	History of Europe course (200-level or higher)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">HIST 301</a>	The Study of History	3.0
<a href="#">PSCI 270</a>	Problems of Individual Liberty and Government Authority	3.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">HIST 492</a>	Senior Seminar	3.0
	Free elective	3.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<i>12.0</i>
<b>Term 11</b>		<b>Credits</b>
	Free electives	6.0-7.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<i>12.0-13.0</i>
<b>Term 12</b>		<b>Credits</b>
	Free electives	6.0-7.0
	History elective (200-level and above HIST course)	3.0
	Political Science elective (300-level and above PSCI course)	3.0
	<i>Term Credits</i>	<i>12.0-13.0</i>
	<b>Total Credits (minimum)</b>	<b>182.0-184.0</b>

### 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. Students scheduling their courses in Banner can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term. For more information on writing-intensive courses, see the Drexel University Writing Program's Writing-Intensive Course page.

# Drexel University

## Catalog 2009/2010

### **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

## Catalog 2009/2010

### International Area Studies

*Bachelor of Arts Degree: 182.0 credits*

#### Global Science, Technology and Society Concentration

Degree requirements (incoming students, 2009/2010)

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

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:

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	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	<b>Global Ethical Issues</b>	3.0
PSCI 371	<b>Science, Technology and Public Policy</b>	3.0
SOC 235	<b>Sociology of Health</b>	3.0
SOC 345	<b>Sociology of the Environment</b>	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	<b>Worldview: Science, Religion, Magic</b>	3.0
BIO 264	<b>Ethnobotany</b>	3.0
ECON 301	<b>Microeconomics</b>	4.0
ECON 321	<b>Macroeconomics</b>	4.0
ECON 351	<b>Resource and Environmental Economics</b>	4.0
ENGL 302	<b>Environmental Literature</b>	3.0
HIST 220	<b>History of American Business</b>	3.0
HIST 223	<b>Women and Work in America</b>	3.0
HIST 281	<b>History of Science II</b>	3.0
HIST 292	<b>Technology in American Life</b>	3.0
IAS 320	<b>Building Global Bridges</b>	3.0
IAS 360	<b>Special Topics in World Civilization ***</b>	3.0
IAS 390	<b>Special Topics in International Area Studies ***</b>	3.0
NFS 345 WI	<b>Foods and Nutrition of World Cultures</b>	3.0
NFS 446	<b>Perspectives on World Nutrition</b>	3.0
PHIL 321	<b>Biomedical Ethics</b>	3.0
PHIL 341	<b>Philosophy of the Environment</b>	3.0
PHIL 351	<b>Philosophy of Technology</b>	3.0
PHIL 361	<b>Philosophy of Science</b>	3.0
PSCI 352	<b>Ethics and International Relations</b>	3.0
SOC 225	<b>Technology and Aging in Industrial Societies</b>	3.0
SOC 260 WI	<b>Classical Social Theory</b>	3.0
SOC 330	<b>Developing Nations and the International Division of Labor</b>	3.0
SOC 346	<b>Environmental Justice</b>	3.0
SOC 435	<b>Seminar: Organization of American States***</b>	3.0
WRIT 400	<b>Writing in Cyberspace</b>	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.

<b>Electives</b>	<b>11.0-23.0 Credits</b>
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*Writing-Intensive Course Requirements*

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate. A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such courses as writing-intensive. Sections of writing-intensive courses are not indicated in this catalog.



## Recommended Plan Of Study

### BA International Area Studies

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

Term 1	Credits
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 2	Credits
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">LING 102</a> Language and Society	3.0
<a href="#">MATH 102</a> Introduction to Analysis II	4.0
<a href="#">PHIL 105</a> Critical Reasoning	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 3	Credits
<a href="#">ECON 201</a> Principles of Microeconomics	4.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">IAS 399</a> Independent Study in IAS: Global Research Methods	3.0
<a href="#">PSCI 150</a> International Politics	4.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 4	Credits
<a href="#">ECON 202</a> Principles of Macroeconomics	4.0
<a href="#">HIST 280</a> History of Science I	3.0
<a href="#">WMST 240</a> 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
<a href="#">COM 240</a> New Technologies In Communication	3.0
<a href="#">SOC 235</a> 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
<a href="#">HIST 285</a> 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
<a href="#">HIST 221</a> Labor in the Age of Technology	3.0
<a href="#">IAS 360</a> Spec Topics World Civilization	3.0
<a href="#">SOC 345</a>	

	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>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ENGL 204</a>	Post-Colonial Lit II	3.0
<a href="#">PHIL 335</a>	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>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ENGL 300</a>	Literature & Science	3.0
<a href="#">HIST 286</a>	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>
<b>Term 10</b>		<b>Credits</b>
<a href="#">PSCI 371</a>	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>
<b>Term 11</b>		<b>Credits</b>
<a href="#">IAS 359</a>	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>
<b>Term 12</b>		<b>Credits</b>
	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>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

# Drexel University

## Catalog 2009/2010

### International Area Studies

*Bachelor of Arts Degree: 182.0 credits*

### International Business and Economics Concentration

Degree requirements (incoming students, 2009/2010)

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	3.0.0
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	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	<b>Business Ethics</b>	3.0
SOC 260	<b>Classical Social Theory</b>	3.0
ANTH 310	<b>Societies in Transition</b>	3.0
or		
SOC 330	<b>Developing Nations</b>	

**International Business and Economics Distribution Requirements\* 33.0 Credits**

Students select 33.0 credits from at least 4 different disciplines:

ANTH 312	<b>Intercultural Behavior</b>	3.0
or		
COM 345	<b>Intercultural Communication</b>	3.0
COM 360	<b>International Communication</b>	3.0
COM 361	<b>International Public Relations</b>	3.0
ECON 301	<b>Microeconomics</b>	4.0
ECON 321	<b>Macroeconomics</b>	4.0
ECON 326	<b>Economic Ideas</b>	4.0
ENGL 325	<b>Topics in World Literature</b>	3.0
HIST 290	<b>Technology and World Community</b>	3.0
IAS 320	<b>Building Global Bridges</b>	3.0
IAS 360	<b>Special Topics in World Civilization **</b>	3.0
IAS 390	<b>Special Topics in International Area Studies **</b>	3.0
INTB 336	<b>International Money and Finance</b>	3.0
INTB 338 WI	<b>Regional Studies in International Business and Economic Policy</b>	3.0
PHIL 331	<b>Philosophy and Public Policy</b>	3.0
PSCI 255	<b>International Political Economy</b>	4.0
PSCI 340	<b>Politics of Developing Nations</b>	3.0
PSCI 351	<b>International Organizations</b>	3.0
PSCI 352	<b>Ethics and International Affairs</b>	3.0
PSCI 357	<b>European Union</b>	3.0
MKTG 301 WI	<b>Introduction to Marketing Management</b>	5.0
MKTG 322	<b>Advertising and Advertising Management</b>	4.0
MKTG 351	<b>Marketing for Non-Profit Organizations</b>	4.0
MKTG 357 WI	<b>Global Marketing</b>	4.0
SOC 220	<b>Wealth and Power</b>	3.0
SOC 310	<b>Political Sociology</b>	3.0
SOC 340	<b>Globalization</b>	3.0
SOC 435	<b>Seminar: Organization of American States**</b>	3.0

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

\*\*Repeatable for credit.

<b>Electives</b>	<b>6.0-14.0 Credits</b>
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*Writing-Intensive Course Requirements*

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

## Recommended Plan Of Study

### BA International Area Studies

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

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

or		
<a href="#">ANTH 310</a>	Society In Transition: Modern and Third World	3.0
	Language course	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">BLAW 340</a>	International Business Law	4.0
<a href="#">INTB 332</a>	Multinational Corporations	4.0
	Two concentration distribution courses (see degree requirements for list)	6.0
	Language course	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ENGL 360</a>	Literature and Society	3.0
<a href="#">INTB 338</a>	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>	<b>16.0</b>
<b>Term 10</b>		<b>Credits</b>
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">IAS 359</a>	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>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Two concentration distribution courses (see degree requirements for list)	6.0
	Free elective	3.0
	Language course	3.0
	<i>Term Credits</i>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

# Drexel University

## Catalog 2009/2010

### International Area Studies

*Bachelor of Arts Degree: 182.0 credits*

#### Justice and Human Rights Concentration

Degree requirements (incoming students, 2009/2010)

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

<b>IAS Core Curriculum Requirements</b>		<b>12.0 Credits</b>
IAS 359	<b>Culture and Values</b>	3.0
IAS 360	<b>Special Topics in World Civilization</b>	3.0.0
IAS 190	<b>Global Research Methods</b>	3.0
WMST 240	<b>Women and Society in Global Context</b>	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.

<b>Justice and Human Rights Requirements</b>		<b>31.0 Credits</b>
ANTH 410	<b>Cultural Theory</b>	3.0
ANTH 310	<b>Societies in Transition</b>	3.0
or		
SOC 330	<b>Developing Nations</b>	
ENGL 360	<b>Literature and Society*</b>	3.0

PHIL 241	<b>Social and Political Philosophy</b>	3.0
PHIL 335	<b>Global Ethical Issues</b>	3.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSCI 329	<b>Theories of Justice</b>	3.0
PSCI 352	<b>Ethics and International Affairs</b>	3.0
PSCI 353	<b>International Human Rights</b>	3.0
SOC 260	<b>Classical Social Theory</b>	3.0

\*Justice and Human rights related topics.

<b>Justice and Human Rights Distribution Requirements*</b>	<b>33.0 Credits</b>
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Students select 33.0 credits from at least 4 different disciplines:

AFAS 295	<b>Special Topics in Africana Studies*</b>	3.0
ANTH 312	<b>Intercultural Behavior</b>	3.0
<b>or</b>		
COM 345	<b>Intercultural Communication</b>	3.0
COM 360	<b>International Communication</b>	3.0
COM 380	<b>Special Topics in Communication Theory: International Negotiation</b>	3.0
ECON 321	<b>Macroeconomics</b>	4.0
ECON 342	<b>Economic Development</b>	4.0
ENGL 360	<b>Literature and Society*</b>	3.0
HIST 290	<b>Technology and World Community</b>	3.0
IAS 360	<b>Special Topics in World Civilization*</b>	3.0
IAS 390	<b>Special Topics in International Area Studies*</b>	3.0
PHIL 331	<b>Philosophy and Public Policy</b>	3.0
PHIL 341	<b>Philosophy of the Environment</b>	3.0
PHIL 391	<b>Philosophy of Religion</b>	3.0
PSCI 240	<b>Comparative Government</b>	3.0
PSCI 255	<b>International Political Economy</b>	4.0
PSCI 340	<b>Politics of Developing Nations</b>	3.0
PSCI 351	<b>International Organizations</b>	3.0
PSCI 357	<b>European Union</b>	3.0
PSCI 365	<b>Politics, Law and Justice</b>	3.0
PSCI 367	<b>International Law</b>	3.0
SOC 220	<b>Wealth and Power</b>	3.0
SOC 310	<b>Political Sociology</b>	3.0
SOC 435	<b>Seminar: Organization of American States</b>	3.0
SOC 344	<b>Social Movements</b>	3.0
SOC 346	<b>Environmental Justice</b>	3.0
WMST 280	<b>Special Topics in Women's Studies***</b>	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.

<b>Electives</b>	<b>12.0-24.0 Credits</b>
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#### *Writing-Intensive Course Requirements*

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



## Recommended Plan Of Study

### BA International Area Studies

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

Term 1	Credits
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 2	Credits
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">LING 102</a> Language and Society	3.0
<a href="#">MATH 102</a> Introduction to Analysis II	4.0
<a href="#">PHIL 105</a> Critical Reasoning	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 3	Credits
<a href="#">ECON 201</a> Principles of Microeconomics	4.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">IAS 190</a> Global Research Methods	3.0
<a href="#">PSCI 150</a> International Politics	4.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 4	Credits
<a href="#">ECON 202</a> Principles of Macroeconomics	4.0
<a href="#">ENGL 204</a> Post-Colonial Literature II	3.0
<a href="#">WMST 240</a> 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
<a href="#">PHIL 241</a> Social & Political Philosophy	3.0
<a href="#">PSCI 352</a> 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
<a href="#">PSCI 120</a> History of Political Thought	4.0
<a href="#">SOC 260</a> 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
<a href="#">IAS 360</a> Special Topics in World Civilization	3.0
<a href="#">PSCI 329</a> Theories of Justice	3.0
<a href="#">SOC 330</a> Developing Nations/International Division of Labor	3.0

or		
<a href="#">ANTH 310</a>	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>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PHIL 335</a>	Global Ethical Issues	3.0
<a href="#">PSCI 353</a>	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>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
<a href="#">ENGL 360</a>	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>
<b>Term 10</b>		<b>Credits</b>
	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>
<b>Term 11</b>		<b>Credits</b>
<a href="#">IAS 359</a>	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>
<b>Term 12</b>		<b>Credits</b>
	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>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

# Drexel University

## Catalog 2009/2010

### International Area Studies

*Bachelor of Arts Degree: 182.0 credits*

#### Literature, Culture and the Arts Concentration

Degree requirements (incoming students, 2009/2010)

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

<b>IAS Core Curriculum Requirements</b>		<b>12.0 Credits</b>
IAS 359	<b>Culture and Values</b>	3.0
IAS 360	<b>Special Topics in World Civilization</b>	3.0
IAS 190	<b>Global Research Methods</b>	3.0
WMST 240	<b>Women and Society in Global Context</b>	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.

<b>Literature, Culture and the Arts Requirements</b>		<b>30.0 Credits</b>
ANTH 212	<b>Topics in World Ethnography</b>	3.0
ANTH 312	<b>Intercultural Behavior</b>	3.0
or		
COM 345	<b>Intercultural Communication</b>	3.0
ANTH 410	<b>Cultural Theory</b>	3.0

ENGL 202 WI	<b>Romanticism to Modernism</b>	3.0
ENGL 204	<b>Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East</b>	3.0
ENGL 360	<b>Literature and Society*</b>	3.0
MUSC 331	<b>World Musics</b>	3.0
PHIL 231	<b>Aesthetics</b>	
	<b>Language course (level 331, 371, 431, or 471)</b>	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	<b>Worldview: Science, Religion, Magic</b>	3.0
ANTH 220	<b>Age in Cross-Cultural Perspective</b>	3.0
COM 210	<b>Theory of Communication</b>	3.0
COM 342	<b>English Worldwide</b>	3.0
COM 355	<b>Ethnography of Communication</b>	3.0
COM 360	<b>International Communication</b>	3.0
COM 390 WI	<b>Global Journalism</b>	3.0
ENGL 200 WI	<b>Classical to Medieval Literature</b>	3.0
ENGL 201	<b>Renaissance to the Enlightenment</b>	3.0
ENGL 203	<b>Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East</b>	3.0
ENGL 300	<b>Literature and Science</b>	3.0
ENGL 335	<b>Mythology</b>	3.0
ENGL 355	<b>Women in Literature</b>	3.0
ENGL 323	<b>Literature and Other Arts**</b>	3.0
ENGL 325	<b>Topics in World Literature</b>	3.0
IAS 320	<b>Building Global Bridges</b>	3.0
IAS 360	<b>Special Topics in World Civilization ***</b>	3.0
IAS 390	<b>Special Topics in International Area Studies ***</b>	3.0
MUSC 130	<b>Introduction to Music</b>	3.0
NFS 445	<b>Perspectives on World Nutrition</b>	3.0
PHIL 201	<b>History of Western Philosophy I</b>	3.0
PHIL 211	<b>Metaphysics</b>	3.0
PHIL 241	<b>Social and Political Philosophy</b>	3.0
PHIL 391	<b>Philosophy of Religion</b>	3.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSCI 323	<b>Comparative Political Thought</b>	3.0
	<b>Language course level (331, 371, 431, or 471)</b>	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.

<b>Electives</b>	<b>11.0-23.0 Credits</b>
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*Writing-Intensive Course Requirements*

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

## Recommended Plan Of Study

### BA International Area Studies

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

Term 1	Credits
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>15.0</i>
Term 2	Credits
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">LING 102</a> Language and Society	3.0
<a href="#">MATH 102</a> Introduction to Analysis II	4.0
<a href="#">PHIL 105</a> Critical Reasoning	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 3	Credits
<a href="#">ECON 201</a> Principles of Microeconomics	4.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">IAS 190</a> Global Research Methods	3.0
<a href="#">PSCI 150</a> International Politics	4.0
Language course	4.0
<i>Term Credits</i>	<i>18.0</i>
Term 4	Credits
<a href="#">ANTH 212</a> Topics in World Ethnography	3.0
<a href="#">ECON 202</a> 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
<a href="#">MUSC 331</a> 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
<a href="#">ENGL 360</a> Literature and Society	3.0
<a href="#">PHIL 231</a> Aesthetics	3.0
<a href="#">ARTH 101</a> History of Art I: Ancient to Medieval	3.0
or	
<a href="#">ARTH 103</a> History of Art III: Early Mode	3.0
or	
<a href="#">ARTH 102</a> 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>

<b>Term 7</b>		<b>Credits</b>
<a href="#">COM 345</a>	Intercultural Communication	3.0
or		
<a href="#">ANTH 312</a>	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>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
<a href="#">ENGL 204</a>	Post-Colonial Literature II	3.0
<a href="#">ENGL 360</a>	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>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ENGL 202</a>	Romanticism to Modernism	3.0
<a href="#">IAS 360</a>	Civilization	3.0
<a href="#">PHIL 335</a>	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>
<b>Term 10</b>		<b>Credits</b>
<a href="#">WMST 240</a>	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>
<b>Term 11</b>		<b>Credits</b>
<a href="#">IAS 359</a>	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>
<b>Term 12</b>		<b>Credits</b>
	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>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

### 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**

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#### 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.

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#### 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	Global Journalism	3.0
ECON 342	Economic Development	4.0
ENGL 203	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 323	Literature and the Other Arts*	3.0
ENGL 325	Topics in World Literature	3.0
ENGL 360	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	<b>Foods and Nutrition of World Cultures</b>	3.0
NFS 446	<b>Perspectives on World Nutrition</b>	3.0
PHIL 335	<b>Global Ethical Issues</b>	3.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSCI 240	<b>Comparative Government</b>	4.0
PSCI 255	<b>International Political Economics</b>	4.0
PSCI 323	<b>Comparative Political Thought</b>	3.0
PSCI 340	<b>Politics of Developing Nations</b>	3.0
PSCI 351	<b>International Organizations</b>	3.0
PSCI 352	<b>Ethics and International Relations</b>	3.0
PSCI 353	<b>International Human Rights</b>	3.0
PSCI 357	<b>European Union</b>	3.0
PSCI 367	<b>International Law</b>	3.0
SOC 220	<b>Wealth and Power</b>	3.0
SOC 330	<b>Developing Nations and the International Division of Labor</b>	3.0
SOC 344	<b>Social Movements</b>	3.0
SOC 346	<b>Environmental Justice</b>	3.0
SOC 435	<b>Seminar: Organization of American States</b>	3.0
WMST 280	<b>Special Topics in Women's Studies*</b>	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.



### 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.

#### ***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**

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

##### **Course options (subject to placement level)**

201-203	<b>Advanced Conversation and Composition</b>
311-312; 411	<b>Stylistics; Advanced Stylistics</b>
332; 333	<b>Literature; Advanced Studies in Literature</b>
351	<b>Business and the Professions</b>
451	<b>Advanced Topics in Business and Professions: European Union</b>
371; 471	<b>Civilization; Advanced Studies in Civilization</b>

\*Special topics courses may be repeated for credit.

**Requirements, non-western languages**

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

**Course options (subject to placement level)**

201-203	<b>Advanced reading, writing, and speaking, Levels IV-VI</b>
301-303	<b>Stylistics, Levels VII-IX</b>
399	<b>Advanced Independent Study</b>
411	<b>Introduction to Stylistics</b>
431	<b>Introduction to Literature</b>
451	<b>Introduction to Business</b>
FREN 451	<b>Special Studies Advanced Business/Professional French: European Union</b>
RUSS 499	<b>Advanced Seminar in Russian Literature</b>

### 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 2009/2010

### Mathematics

*Bachelor of Arts : 180.0 credits*

Degree requirements (incoming students, 2009/2010)

<b>General education requirements*</b>		<b>55.0 Credits</b>
COM 230	<b>Public Speaking</b>	3.0
CS 131	<b>Computer Programming A</b>	3.0
CS 132	<b>Computer Programming B</b>	3.0
CS 133	<b>Computer Programming C</b>	3.0
ENGL 101	<b>Expository Writing and Reading</b>	3.0
ENGL 102	<b>Persuasive Writing and Reading</b>	3.0
ENGL 103	<b>Analytical Writing and Reading</b>	3.0
UNIV 101	<b>The Drexel Experience</b>	2.0
	<b>Humanities and Fine Arts electives</b>	6.0
	<b>International Studies electives</b>	6.0
	<b>Science electives</b>	8.0
	<b>Social and Behavioral Sciences electives</b>	6.0
	<b>Studies in Diversity electives</b>	6.0
<b>Free electives (depending upon other options selected)</b>		<b>64.0 Credits</b>
	<b>Free electives</b>	64.0
<b>Core mathematics requirements</b>		<b>27.0 Credits</b>
MATH 121	<b>Calculus I *</b>	4.0
MATH 122	<b>Calculus II</b>	4.0
MATH 123	<b>Calculus III</b>	4.0
MATH 200	<b>Multivariate Calculus</b>	4.0
MATH 201	<b>Linear Algebra</b>	4.0
MATH 210	<b>Differential Equations</b>	4.0
MATH 220	<b>Introduction to Mathematical Reasoning</b>	3.0
<b>Additional mathematics requirements</b>		<b>3.0 - 4.0 Credits</b>
MATH 331	<b>Abstract Algebra I</b>	4.0
or		
MATH 401	<b>Elements of Modern Analysis I</b>	3.0
<b>Students complete at least one of the following depth of knowledge sequences:</b>		<b>9.0 - 11.0 Credits</b>
MATH 221	<b>Discrete Mathematics</b>	3.0
MATH 316	<b>Symbolic Software</b>	3.0
MATH 332	<b>Abstract Algebra II</b>	3.0
<b>or</b>		

MATH 321	<b>Vector Calculus</b>	4.0
MATH 322	<b>Complex Variables</b>	4.0
MATH 402	<b>Elements of Modern Analysis II</b>	3.0
<b>or</b>		
MATH 300	<b>Numerical Analysis I with MATLAB</b>	4.0
MATH 301	<b>Numerical Analysis II</b>	3.0
MATH 305	<b>Optimization Theory</b>	4.0
<b>or</b>		
MATH 311	<b>Probability and Statistics I</b>	4.0
MATH 312	<b>Probability and Statistics II</b>	4.0
MATH 318	<b>Statistical Software</b>	3.0
<b>or</b>		
MATH 205	<b>Survey of Geometry</b>	3.0
MATH 311	<b>Probability and Statistics I</b>	4.0
MATH 312	<b>Probability and Statistics II</b>	4.0

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**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.

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**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. .

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**\* 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, 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.

**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.

## Recommended Plan Of Study

### BA Mathematics, 4-Year Non-Co-op 4 YR UG No Co-op Concentration

		<b>Credits</b>
<b>Term 1</b>		
<a href="#">CS 131</a>	Computer Programming A	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	Science elective (See degree requirements)	4.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 2</b>		
<a href="#">CS 132</a>	Computer Programming B	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	Science elective (See degree requirements)	4.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 3</b>		
<a href="#">CS 133</a>	Computer Programming C	3.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">MATH 220</a>	Introduction to Mathematical Reasoning	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 4</b>		
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
	Diversity studies elective	3.0
	Free elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		
<a href="#">MATH 210</a>	Differential Equations	4.0
	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>	<b>16.0</b>
<b>Term 6</b>		
	Free electives	6.0
	International studies elective	3.0
	MATH elective from BS in Mathematics requirements (or see degree list)	3.0
	Social and Behavioral Sciences elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 7</b>		
<a href="#">MATH 401</a>	Elements of Modern Analysis I	3.0
or		
<a href="#">MATH 331</a>	Abstract Algebra I	4.0
	Diversity studies elective	3.0
	Free electives	6.0

	International studies elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
	Free electives	6.0
	MATH elective from BS in Mathematics requirements (or see degree list)	3.0
	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>
<b>Term 9</b>		<b>Credits</b>
	Free electives	9.0
	MATH elective from BS in Mathematics requirements (or see degree list)	3.0
	Course in a field related to Math (See degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
	Free electives	9.0
	Humanities/Fine Arts elective	3.0
	MATH course selected from sequence option (see degree requirements)	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
	Free electives	10.0
	MATH course selected from sequence option (see degree requirements)	3.0
	<i>Term Credits</i>	<i>13.0</i>
<b>Term 12</b>		<b>Credits</b>
	Free electives	10.0
	MATH elective from BS in Mathematics requirements (or see degree list)	3.0
	<i>Term Credits</i>	<i>13.0</i>
	<b>Total Credits (minimum)</b>	<b>180.0</b>

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# Drexel University

## Catalog 2009/2010

### Mathematics

*Bachelor of Science Degree: 180.0 credits*

Degree requirements (incoming students, 2009/2010)

#### 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	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.



## Recommended Plan Of Study

### BS Mathematics, 4-year Co-Op 4 YR UG Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
<a href="#">CS 121</a>	Computation Lab I	1.0
<a href="#">CS 131</a>	Computer Programming A	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">CS 122</a>	Computation Lab II	1.0
<a href="#">CS 132</a>	Computer Programming B	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">CS 123</a>	Computation Lab III	1.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">MATH 220</a>	Introduction to Mathematical Reasoning	3.0
<a href="#">PHYS 111</a>	Physics I	4.5
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
	Social science electives	6.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">MATH 210</a>	Differential Equations	4.0
<a href="#">MATH 221</a>	Discrete Mathematics	3.0
<a href="#">MATH 321</a>	Vector Calculus	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">MATH 300</a>	Numerical Analysis I	4.0
<a href="#">MATH 311</a>	Probability and Statistics I	4.0
<a href="#">MATH 323</a>	Partial Differential Equations	4.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">MATH 305</a>	Introduction to Optimization Theory	4.0
<a href="#">MATH 312</a>	Probability and Statistics II	4.0
	Free elective	3.0
	Humanities elective	3.0

	Social science elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">MATH 322</a>	Complex Variables	4.0
<a href="#">MATH 401</a>	Elements of Modern Analysis I	3.0
	Free elective	3.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">MATH 318</a>	Mathematical Applications of Statistical Software	3.0
<a href="#">MATH 402</a>	Elements of Modern Analysis II	3.0
	Free electives	7.0
	<i>Term Credits</i>	<i>13.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">MATH 316</a>	Mathematical Applications of Symbolic Software	3.0
<a href="#">MATH 331</a>	Abstract Algebra I	4.0
	Free electives	7.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">MATH 301</a>	Numerical Analysis II	3.0
<a href="#">MATH 332</a>	Abstract Algebra II	3.0
	Free electives	7.0
	<i>Term Credits</i>	<i>13.0</i>
<b>Term 12</b>		<b>Credits</b>
	Free electives	12.0
	<i>Term Credits</i>	<i>12.0</i>
	<b>Total Credits (minimum)</b>	<b>181.0</b>

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## Recommended Plan Of Study

### BS Mathematics, 4-Year Non-Co-op 4 YR UG No Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
<a href="#">CS 121</a>	Computation Lab I	1.0
<a href="#">CS 131</a>	Computer Programming A	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">CS 122</a>	Computation Lab II	1.0
<a href="#">CS 132</a>	Computer Programming B	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">CS 123</a>	Computation Lab III	1.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">MATH 220</a>	Introduction to Mathematical Reasoning	3.0
<a href="#">PHYS 111</a>	Physics I	4.5
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
	Social science electives	6.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">MATH 210</a>	Differential Equations	4.0
<a href="#">MATH 221</a>	Discrete Mathematics	3.0
<a href="#">MATH 321</a>	Vector Calculus	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">MATH 300</a>	Numerical Analysis I	4.0
<a href="#">MATH 311</a>	Probability and Statistics I	4.0
	Free elective	3.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">MATH 322</a>	Complex Variables	4.0
<a href="#">MATH 331</a>	Abstract Algebra I	4.0
	Free elective	3.0

	Humanities elective	3.0
	Social science elective	3.0
	<b>Term Credits</b>	<b>17.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">MATH 312</a>	Probability and Statistics II	4.0
<a href="#">MATH 316</a>	Mathematical Applications of Symbolic Software	3.0
<a href="#">MATH 332</a>	Abstract Algebra II	3.0
	Free elective	3.0
	Social science elective	3.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">MATH 301</a>	Numerical Analysis II	3.0
<a href="#">MATH 305</a>	Introduction to Optimization Theory	4.0
	Free electives	6.0
	<b>Term Credits</b>	<b>13.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">MATH 401</a>	Elements of Modern Analysis I	3.0
	Free electives	9.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">MATH 402</a>	Elements of Modern Analysis II	3.0
	Free electives	9.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">MATH 318</a>	Mathematical Applications of Statistical Software	3.0
<a href="#">MATH 323</a>	Partial Differential Equations	4.0
	Free electives	6.0
	<b>Term Credits</b>	<b>13.0</b>
	<b>Total Credits (minimum)</b>	<b>181.0</b>

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Recommended Plan Of Study

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

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
<a href="#">CS 121</a>	Computation Lab I	1.0
<a href="#">CS 131</a>	Computer Programming A	3.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 121</a>	Calculus I	4.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">CS 122</a>	Computation Lab II	1.0
<a href="#">CS 132</a>	Computer Programming B	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">CS 123</a>	Computation Lab III	1.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">MATH 220</a>	Introduction to Mathematical Reasoning	3.0
<a href="#">PHYS 111</a>	Physics I	4.5
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
	Social science electives	6.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">MATH 210</a>	Differential Equations	4.0
<a href="#">MATH 221</a>	Discrete Mathematics	3.0
<a href="#">MATH 321</a>	Vector Calculus	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">MATH 311</a>	Probability and Statistics I	4.0
<a href="#">MATH 331</a>	Abstract Algebra I	4.0
	Humanities elective	3.0
	Social science elective	3.0
	<i>Term Credits</i>	<b>14.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">MATH 312</a>	Probability and Statistics II	4.0
<a href="#">MATH 332</a>	Abstract Algebra II	3.0
	Free elective	3.0
	Humanities elective	3.0

	Social science elective	3.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">MATH 316</a>	Math Applications of Symbolic Software	3.0
<a href="#">MATH 401</a>	Elements of Modern Analysis I	3.0
	Free electives	6.0
	Social science elective	3.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
<a href="#">MATH 305</a>	Introduction to Optimization Theory	4.0
<a href="#">MATH 402</a>	Elements of Modern Analysis II	3.0
	Free electives	6.0
	<i>Term Credits</i>	<i>13.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">MATH 300</a>	Numerical Analysis I	4.0
<a href="#">MATH 322</a>	Complex Variables	4.0
	Free electives	6.0
	<i>Term Credits</i>	<i>14.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">MATH 318</a>	Mathematical Applications of Statistical Software	3.0
<a href="#">MATH 323</a>	Partial Differential Equations	4.0
	Free electives	6.0
	<i>Term Credits</i>	<i>13.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">MATH 301</a>	Numerical Analysis II	3.0
	Free electives	12.0
	<i>Term Credits</i>	<i>15.0</i>
	<b>Total Credits (minimum)</b>	<b>181.0</b>

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### Minor in Mathematics

The minor in mathematics consists of five required courses and at least 18 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
	Mathematics minor electives (Selected from the list below)	18.0

#### Mathematics minor electives\*\*

Students select 18 credits from the following courses:

MATH 210	Differential Equations	4.0
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 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 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

\*Or equivalent course from the list of approved electives.

\*\*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](mailto:marna.a.mozeff@drexel.edu).

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



### Nutrition and Foods

#### About the Degree

The BS in Nutrition and Foods requires four years of study and the completion of at least 180 credits. The curriculum is designed to provide a sound basis for careers in dietetics and the application of the principles of nutrition and food science to the nutritional care of individuals and groups—such as in school food service or community nutrition—or to provide a sound basis for careers in the food and pharmaceutical industries.

The study of the biochemical nature of nutrients and foods, their interaction with the environment, and their eventual metabolic fate is a strong career path for more research-minded students and provides a unique base for graduate study.

#### About the Nutrition Program

*Dietetics* is the practical application of nutrition in the prevention and treatment of disease. Dietetics is an exciting and challenging profession because there are many diseases that are related to nutrition, such as heart disease, high blood pressure, stroke, cancer, diabetes and obesity.

The nutrition program at Drexel University is referred to as a Didactic Program in Dietetics (DPD) because we provide classroom training for students who want to become Registered Dietitians. Our Didactic Program in Dietetics is currently granted accreditation by the Commission on Accreditation for Dietetics Education of the American Dietetic Association (ADA -120 S Riverside Plaza, Suite 2000, Chicago, IL 60606, 800-877-1600 x5400, [www.eatright.org](http://www.eatright.org)). The American Dietetic Association is the nation's largest organization of food and nutrition professionals, most of whom are Registered Dietitians.

To become a Registered Dietitian, students must complete a:

- Bachelor's degree with course work approved by ADA's Commission on Accreditation for Dietetics Education. Coursework typically includes food and nutrition sciences, chemistry, biochemistry, physiology, microbiology, community nutrition, nutrition education, foodservice systems management and business.
- An accredited, supervised practice program, also called a dietetic internship, at a health-care facility, community agency or foodservice corporation. The internship provides at least 1200 hours of hands-on training.
- Pass a national examination administered by the Commission on Dietetic Registration.

After successfully completing the BS program in Nutrition and all DPD-required courses with a C or better, students will receive a BS degree and also a Verification Statement. The Verification Statement is a certificate documenting completion of an approved/accredited Didactic Program in Dietetics. Students need both a Bachelor's degree and a Verification Statement to start a supervised practice program or internship.

During the senior year, most students will apply for admission into a dietetic internship. Most dietetic internships last 8 to 9 months. To have a good chance of getting accepted into a dietetic internship, students should do the following:

- Maintain a cumulative GPA greater than 3.0 (this includes college courses regardless of where taken).
- Work several hundred hours in dietetics-related work and volunteer experience (especially in the food and nutrition departments at hospitals and nursing homes and in community programs such as WIC).
- Participate in activities that demonstrate leadership.

### **Mission, Goals, and Outcome Measures**

The mission of the Drexel University Didactic Program in Dietetics is to integrate a foundation in the nutrition sciences with courses in the humanities to provide the knowledge, skills, and professional values (such as ethics) needed for successful entry into dietetic internships, graduate school, and/or dietetics employment. The learning environment is structured to allow students opportunities for experiential learning, including co-operative education, participation in research, and use of current technologies.

#### **GOAL 1**

To provide quality didactic instruction and learning experiences to prepare graduates to be accepted into dietetic internships and graduate schools, and/or work in the field of dietetics.

1. Students obtain the knowledge, skills, and professional values specified by CADE.
2. On senior program evaluation responses, 90% of the knowledge and skill statements will be selected as competent.
3. 50% of juniors will do co-op.
4. 80% of seniors will participate in a research project.
5. On average, 75% of graduating students will apply to an accredited dietetic internship or graduate school.
6. On average, 80% of students who apply to internships, and 80% who apply to graduate school, are accepted.
7. Of those graduates seeking employment in nutrition and food-related careers, 80% will be employed within 6 months of program completion.
8. On surveys to internship directors, graduate school advisors, and employers, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.
9. On surveys to students 1 year after graduation, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.

#### **GOAL 2**

To prepare graduates who are accepted into accredited internship programs to become competent entry-level dietitians.

1. Drexel alumni achieve over a 5-year period a pass rate of at least 80% on the RD exam.
2. On surveys to employers of internship graduates, the mean rating of each of 10 learning outcomes will meet or exceed the rating of "3" (satisfactory) or better.

#### **GOAL 3**

Through recruitment efforts, encouragement, motivation, and support, faculty and staff will increase the number of students and the diversity of students who enter and complete the didactic program in dietetics.

1. The number of students registered in 300 and 400 level NFS courses is 12 or higher.
2. At least 10% of juniors and seniors will be from underrepresented groups.
3. At least 90% of the students enrolled in the didactic program two years before completion of the DPD will complete the program.
4. Senior students indicate on surveys "satisfactory" or better scores with respect to the encouragement and support provided by the program's academic advisement staff.
5. Senior students rate the overall quality of 90% of their DPD required courses as satisfactory (3) or better.

### **Nutrition and Foods**

#### **Admission Requirements**

Drexel takes into consideration a number of criteria when determining admission, including the applicant's application, transcripts, courses in progress, two recommendations, standardized test scores, essay, and special interests (list of extracurricular activities, employment, etc.). Applicants to the Nutrition and Foods program must have completed four years of high school mathematics (algebra I and II, geometry, and trigonometry) and two years of a laboratory science (biology, chemistry, or physics). To be considered as a transfer student, candidates should have completed a minimum of 24 college credits. Drexel operates on a rolling admission basis, which means that students will be notified about the admission decision as soon as possible after their files are complete.

Visit the Admissions web site for more information and to apply online.

#### **Graduation Requirements**

To receive a BS in Nutrition and Foods, students in the program must complete a Plan of Study of all required courses and enough elective courses to total at least 180.0 credits. An overall GPA of 2.0 or higher for all coursework undertaken at Drexel University must be earned to receive a BS. A "C" or better is necessary in all courses required by the Didactic Program in Nutrition in order to receive a Verification Statement.

For the current academic calendar, visit <http://www.drexel.edu/src/calendar.asp>.

# Drexel University

## Catalog 2009/2010

### Nutrition and Foods

*Bachelor of Science: 186.5 credits*

Required courses (incoming students, 2009/2010)

#### Required Courses

Communications		15.0 Credits
COM 230	Techniques of Speaking	3.0
COM 345	Intercultural Communication	3.0
or		
COM 310	Technical Communication	
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

Physical and Biological Sciences		42.5 Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 153	Anatomy and Physiology I	4.0
BIO 154	Anatomy and Physiology II	4.0
BIO 155	Anatomy and Physiology III	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
NFS 215	Nutritional Chemistry	3.0
NFS 217	Nutrient Quality & Composition	1.0

Humanities and Social Sciences		12.0 Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
or		
SOC 101	Introduction to Sociology	
PSY 101	General Psychology I	3.0
PSY 320 WI	Educational Psychology (WI)	3.0
or		
PSY 230	Psychology of Learning	
PSY 342	Counseling Psychology	3.0

Management and Statistics		14.0 Credits
HRM 120	Principles of Food-Service Management	3.0
HRMT 323	Principles of Human Resource Administration	4.0
ORGB 300 WI	Organizational Behavior	4.0

<b>Foods, Food Safety, and Food Production</b>		<b>18.0</b>
		<b>Credits</b>
CULA 115	Culinary Fundamentals	3.0
FDSC 154	Foods: Composition, Interactions and Formulations	4.0
FDSC 270	Microbial Food Safety and Sanitation	4.0
FDSC 350	Experimental Food: Product Development	3.0
HRM 215	Commercial Food Production	4.0

<b>Nutrition and Food Sciences</b>		<b>56.0</b>
		<b>Credits</b>
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 230	Intermediate Nutrition	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 365 WI	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 370	Food Services Systems Management	4.0
NFS 391	Community Nutrition	4.0
NFS 415	Advanced Nutrition I: Macronutrients	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 431	Nutrition Counseling	4.0
NFS 443	Medical Nutrition Therapy I	3.0
NFS 444	Medical Nutrition Therapy II	3.0
NFS 445	Medical Nutrition Therapy III	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 494 WI	Senior Project I	2.0
NFS 495	Senior Project II	2.0
NFS 496	Senior Project III	2.0

<b>Mathematics</b>		<b>8.0</b>
		<b>Credits</b>
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0

<b>Additional requirements</b>		<b>3.0</b>
		<b>Credits</b>
UNIV 101	The Drexel Experience	3.0

<b>Electives</b>		<b>18.0</b>
		<b>Credits</b>
<b>Free electives</b>		<b>18.0</b>

*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.

## Recommended Plan Of Study

### BS Nutrition and Foods, 4-year Co-Op 4 YR UG Co-op Concentration

		Credits
<b>Term 1</b>		
<a href="#">BIO 121</a>	Physiology and Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 101</a>	Introduction to Analysis I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 102</a>	Introduction to Analysis II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	2.0
	<i>Term Credits</i>	<b>18.0</b>
<b>Term 3</b>		
<a href="#">BIO 123</a>	Organismal Diversity & Ecology	4.5
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">FDSC 154</a>	Foods: Composition, Interaction and Formulation	4.0
	<i>Term Credits</i>	<b>16.5</b>
<b>Term 4</b>		
<a href="#">BIO 153</a>	Anatomy and Physiology I	4.0
<a href="#">HRM 120</a>	Principles of Food-Service Management	3.0
<a href="#">NFS 215</a>	Nutritional Chemistry	3.0
<a href="#">NFS 217</a>	Nutrient Quality & Composition	1.0
<a href="#">NFS 230</a>	Intermediate Nutrition	4.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 5</b>		
<a href="#">BIO 154</a>	Anatomy and Physiology II	4.0
<a href="#">CULA 115</a>	Culinary Fundamentals	3.0
<a href="#">FDSC 270</a>	Microbial Food Safety and Sanitation	4.0
<a href="#">NFS 203</a>	Nutrition II: Nutrition in the Lifecycle	4.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 6</b>		
<a href="#">BIO 155</a>	Anatomy & Physiology III	4.0
<a href="#">HRM 215</a>	Commercial Food Production	4.0
<a href="#">NFS 265</a>	Professional Issues in Nutrition and Foods	3.0
<a href="#">PSY 101</a>	General Psychology I	3.0
	Free elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 7</b>		
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">ORGB 300</a>	Organizational Behavior	4.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
or		
<a href="#">ANTH 101</a>	Introduction to Cultural Diversity	3.0
	Free elective	3.0

	<i>Term Credits</i>	<b>13.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">FDSC 350</a>	Experimental Foods: Product Development	3.0
<a href="#">NFS 415</a>	Advanced Nutrition I: Macronutrition	4.0
<a href="#">PSY 320</a>	Educational Psychology	3.0
<a href="#">PSY 364</a>	Computer-Assisted Data Analysis I	3.0
<a href="#">COM 345</a>	Intercultural Communication	3.0
or		
<a href="#">COM 310</a>	Technical Communication	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">HRMT 323</a>	Principles of Human Resource Administration	4.0
<a href="#">NFS 365</a>	Nutrition Laboratory: Food and Nutrient Analysis	4.0
<a href="#">NFS 416</a>	Advanced Nutrition II: Micronutrients	4.0
<a href="#">PSY 342</a>	Counseling Psychology	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">NFS 391</a>	Community Nutrition	4.0
<a href="#">NFS 443</a>	Medical Nutrition Therapy I	3.0
<a href="#">NFS 475</a>	Advanced Seminar in the Dietetics Profession	3.0
<a href="#">NFS 494</a>	Senior Project I	2.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">NFS 431</a>	Nutrition Counseling	4.0
<a href="#">NFS 444</a>	Medical Nutrition Therapy II	3.0
<a href="#">NFS 495</a>	Senior Project II	2.0
	Free electives	6.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">NFS 345</a>	Foods and Nutrition of World Cultures	3.0
<a href="#">NFS 370</a>	Foodservice Systems Management	4.0
<a href="#">NFS 445</a>	Medical Nutrition Therapy III	3.0
<a href="#">NFS 496</a>	Senior Project III	2.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
	<b>Total Credits (minimum)</b>	<b>186.5</b>

## Recommended Plan Of Study

### BS Nutrition and Foods, 4-year Non-Co-op 4 YR UG No Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology and Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 101</a>	Introduction to Analysis I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<i>16.0</i>
<b>Term 2</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 102</a>	Introduction to Analysis II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	2.0
	<i>Term Credits</i>	<i>18.0</i>
<b>Term 3</b>		<b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity & Ecology	4.5
<a href="#">CHEM 103</a>	General Chemistry III	5.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">FDSC 154</a>	Foods: Composition, Interaction and Formulation	4.0
	<i>Term Credits</i>	<i>16.5</i>
<b>Term 4</b>		<b>Credits</b>
<a href="#">BIO 153</a>	Anatomy and Physiology I	4.0
<a href="#">HRM 120</a>	Principles of Food-Service Management	3.0
<a href="#">NFS 215</a>	Nutritional Chemistry	3.0
<a href="#">NFS 217</a>	Nutrient Quality & Composition	1.0
<a href="#">NFS 230</a>	Intermediate Nutrition	4.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 5</b>		<b>Credits</b>
<a href="#">BIO 154</a>	Anatomy and Physiology II	4.0
<a href="#">CULA 115</a>	Culinary Fundamentals	3.0
<a href="#">FDSC 270</a>	Microbial Food Safety and Sanitation	4.0
<a href="#">NFS 203</a>	Nutrition II: Nutrition in the Lifecycle	4.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 6</b>		<b>Credits</b>
<a href="#">BIO 155</a>	Anatomy & Physiology III	4.0
<a href="#">HRM 215</a>	Commercial Food Production	4.0
<a href="#">NFS 265</a>	Professional Issues in Nutrition and Foods	3.0
<a href="#">PSY 101</a>	General Psychology I	3.0
	Free elective	3.0
	<i>Term Credits</i>	<i>17.0</i>
<b>Term 7</b>		<b>Credits</b>
<a href="#">FDSC 350</a>	Experimental Foods: Product Development	3.0
<a href="#">NFS 415</a>	Advanced Nutrition I: Macronutrition	4.0
<a href="#">PSY 320</a>	Educational Psychology	3.0
<a href="#">PSY 364</a>	Computer-Assisted Data Analysis I	3.0
	<i>Term Credits</i>	<i>13.0</i>



<b>Term 8</b>		<b>Credits</b>
<a href="#">COM 230</a>	Techniques of Speaking	3.0
<a href="#">NFS 365</a>	Nutrition Laboratory: Food and Nutrient Analysis	4.0
<a href="#">NFS 416</a>	Advanced Nutrition II: Micronutrients	4.0
<a href="#">ORGB 300</a>	Organizational Behavior	4.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">HRMT 323</a>	Principles of Human Resource Administration	4.0
<a href="#">PSY 342</a>	Counseling Psychology	3.0
<a href="#">ANTH 101</a>	Introduction to Cultural Diversity	3.0
or		
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
<a href="#">COM 310</a>	Technical Communication	3.0
or		
<a href="#">COM 345</a>	Intercultural Communication	3.0
	Free elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">NFS 391</a>	Community Nutrition	4.0
<a href="#">NFS 443</a>	Medical Nutrition Therapy I	3.0
<a href="#">NFS 475</a>	Advanced Seminar in the Dietetics Profession	3.0
<a href="#">NFS 494</a>	Senior Project I	2.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">NFS 431</a>	Nutrition Counseling	4.0
<a href="#">NFS 444</a>	Medical Nutrition Therapy II	3.0
<a href="#">NFS 495</a>	Senior Project II	2.0
	Free electives	6.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">NFS 345</a>	Foods and Nutrition of World Cultures	3.0
<a href="#">NFS 370</a>	Foodservice Systems Management	4.0
<a href="#">NFS 445</a>	Medical Nutrition Therapy III	3.0
<a href="#">NFS 496</a>	Senior Project III	2.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
	<b>Total Credits (minimum)</b>	<b>186.5</b>

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### Minor in Nutrition

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

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

#### Required courses

NFS 200 WI	<b>Nutrition I: Principles of Nutrition</b>	4.0
<b>or</b>		
NFS 230	<b>Intermediate Nutrition</b>	4.0
NFS 203	<b>Nutrition II: Nutrition in the Life Cycle</b>	4.0
NFS 415	<b>Advanced Nutrition I: Macronutrients and Energy</b>	4.0
NFS 416	<b>Advanced Nutrition II: Micronutrients and Control</b>	4.0

#### Three of the following courses

FDSC 154	<b>Foods: Composition, Interaction and Formulations</b>	4.0
NFS 345	<b>Foods and Nutrition of World Cultures</b>	3.0
NFS 391	<b>Community Nutrition</b>	4.0
NFS 480	<b>Special Topics in Nutrition</b>	3.0-4.0

### **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.

# Drexel University

## Catalog 2009/2010

### Philosophy

*Bachelor of Arts Degree: 182.0 - 187.0 credits*

Required courses (incoming students, 2009/2010)

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

‡This course may be repeated for credit.

**One of the following courses:**

PHIL 371	<b>Philosophy of the Social Sciences</b>	3.0
PHIL 391	<b>Philosophy of Religion</b>	3.0

**One of the following courses:**

PHIL 425 WI	<b>Seminar in Medieval Philosophy</b>	3.0
PHIL 421 Wi	<b>Seminar in Ancient Philosophy</b>	3.0

**One of the following courses:**

PHIL 461 WI	<b>Seminar in Contemporary Philosophy</b>	3.0
PHIL 465 WI	<b>Seminar in American Philosophy</b>	3.0

**One of the following Professional Ethics electives:**

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

<b>Electives</b>	<b>48.0 Credits</b>
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.

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 Philosophy**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

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

<b>Term 7</b>		<b>Credits</b>
<a href="#">PHIL 231</a>	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>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PHIL 361</a>	Philosophy of Science	3.0
<a href="#">PHIL 481</a>	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>
<b>Term 9</b>		<b>Credits</b>
<a href="#">PHIL 485</a>	Seminar in a Major Philosopher	3.0
<a href="#">PHIL 391</a>	Philosophy of Religion	3.0
or		
<a href="#">PHIL 371</a>	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>
<b>Term 10</b>		<b>Credits</b>
<a href="#">PHIL 497</a>	Senior Essay I: Research & Thesis	3.0
<a href="#">PHIL 425</a>	Seminar in Medieval Philosophy	3.0
or		
<a href="#">PHIL 421</a>	Seminar in Ancient Philosophy	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">PHIL 431</a>	Seminar in Rationalism & Empiricism	3.0
<a href="#">PHIL 498</a>	Senior Essay II: Argument Construction	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
<b>Term 12</b>		<b>Credits</b>
<a href="#">PHIL 499</a>	Senior Essay III: Defense	3.0
<a href="#">PHIL 465</a>	Seminar in American Philosophy	3.0
or		
<a href="#">PHIL 461</a>	Seminar in Contemporary Philosophy	3.0
	Free electives	9.0
	<i>Term Credits</i>	<i>15.0</i>
	<b>Total Credits (minimum)</b>	<b>182.0-188.0</b>

### 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	<b>Introduction to Western Philosophy</b>	3.0
PHIL 211	<b>Metaphysics</b>	3.0
PHIL 221	<b>Epistemology</b>	3.0
PHIL 251	<b>Ethics</b>	3.0

#### One of the following courses:

PHIL 105	<b>Critical Reasoning</b>	3.0
PHIL 111	<b>Propositional (Zero-Order) Logic</b>	3.0

#### One of the following courses:

PHIL 301	<b>Business Ethics</b>	3.0
PHIL 305	<b>Communication Ethics</b>	3.0
PHIL 311	<b>Computer Ethics</b>	3.0
PHIL 315	<b>Engineering Ethics</b>	3.0
PHIL 321	<b>Biomedical Ethics</b>	3.0

#### One of the following courses:

PHIL 231	<b>Aesthetics</b>	3.0
PHIL 241	<b>Social and Political Philosophy</b>	3.0
PHIL 351	<b>Philosophy of Technology</b>	3.0
PHIL 355	<b>Philosophy of Medicine</b>	3.0
PHIL 361	<b>Philosophy of Science</b>	3.0
PHIL 371	<b>Philosophy of the Social Sciences</b>	3.0
PHIL 381 WI	<b>Philosophy in Literature</b>	3.0
PHIL 385	<b>Philosophy of Law</b>	3.0
PHIL 391	<b>Philosophy of Religion</b>	3.0



**One of the following courses**

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

# Drexel University

## Catalog 2009/2010

### 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

# Drexel University

## Catalog 2009/2010

### **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.

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

**One of the following courses:**

PHIL 361	<b>Philosophy of Science</b>	3.0
PHIL 371	<b>Philosophy of the Social Sciences</b>	3.0

### Physics

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

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

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

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

# Drexel University

## Catalog 2009/2010

### Physics

*Bachelor of Science Degree: 185.0 credits*

Required courses (incoming students, 2009/2010)

#### 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 102	Biology I: Cells and Tissues	4.0
or		
CHEM 103	General Chemistry III	5.0

#### Physics requirements

PHYS 113	Contemporary Physics I	5.0
PHYS 114	Contemporary Physics II	5.0
PHYS 115	Contemporary Physics III	5.0
PHYS 105	Computational Physics I	3.0
PHYS 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	<b>Statistical Mechanics</b>	3.0
PHYS 321	<b>Electromagnetic Fields I</b>	4.0
PHYS 322	<b>Electromagnetic Fields II</b>	4.0
PHYS 324	<b>Topics in Mathematical Physics</b>	3.0
PHYS 326	<b>Quantum Mechanics I</b>	4.0
PHYS 327	<b>Quantum Mechanics II</b>	4.0
PHYS 328	<b>Advanced Laboratory</b>	3.0
PHYS 408	<b>Physics Seminar</b>	3.0
PHYS 428	<b>Quantum Mechanics III</b>	4.0
PHYS 491	<b>Senior Research I</b>	3.0
PHYS 492	<b>Senior Research II</b>	3.0
PHYS 493 WI	<b>Senior Research III</b>	3.0

**Physics lab requirements** **3.0 - 4.0**

PHYS 227 WI	<b>Instrumentation for Scientists II</b>	3.0
<b>or</b>		
PHYS 306	<b>Computational Physics Laboratory I</b>	2.0
<b>and</b>		
PHYS 307	<b>Computational Physics Laboratory II</b>	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	<b>Galactic Dynamics</b>	3.0
PHYS 432	<b>Cosmology</b>	3.0
PHYS 452	<b>Solid State Physics</b>	3.0
PHYS 453	<b>Nanoscience</b>	3.0
PHYS 461	<b>Biophysics</b>	3.0
PHYS 462	<b>Computational Biophysics</b>	3.0
PHYS 471	<b>Nonlinear Dynamics</b>	3.0
PHYS 476	<b>Nuclear and Particle Physics</b>	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 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.

**BS Physics**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

<b>Term 1</b>		<b>Credits</b>
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">PHYS 113</a>	Contemporary Physics I	5.0
<a href="#">PHYS 160</a>	Introduction to Scientific Computing	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">CS 171</a>	Computer Programming I	3.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">PHYS 114</a>	Contemporary Physics II	5.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">PHYS 105</a>	Computational Physics I	3.0
<a href="#">PHYS 115</a>	Contemporary Physics III	5.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
<a href="#">PHYS 217</a>	Thermodynamics	4.0
	<b>Term Credits</b>	<b>15.5</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">MATH 210</a>	Differential Equations	4.0
<a href="#">PHYS 223</a>	Modern Physics Laboratory	3.0
<a href="#">PHYS 305</a>	Computational Physics II	3.0
<a href="#">PHYS 324</a>	Topics in Mathematical Physics	3.0
	<b>Term Credits</b>	<b>17.5</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">PHYS 311</a>	Classical Mechanics I	4.0
<a href="#">PHYS 321</a>	Electromagnetic Fields I	4.0
<a href="#">CHEM 103</a>	General Chemistry III	5.0
or		
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
	Liberal studies elective	3.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">PHYS 312</a>	Classical Mechanics II	4.0
<a href="#">PHYS 322</a>	Electromagnetic Fields II	4.0
<a href="#">PHYS 328</a>	Advanced Laboratory	3.0
<a href="#">PHYS 306</a>	Computational Physics Laboratory I	2.0
or		
<a href="#">PHYS 227</a>		

	Instrumentation for Scientists II	3.0
	Business elective	4.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PHYS 226</a>	Instrumentation for Scientists I	3.0
<a href="#">PHYS 326</a>	Quantum Mechanics I	4.0
	Free elective	3.0
	Liberal studies elective	3.0
	Topical Physics course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">PHYS 317</a>	Statistical Mechanics	3.0
<a href="#">PHYS 327</a>	Quantum Mechanics II	4.0
<a href="#">PHYS 307</a>	Computational Physics Laboratory II	2.0
	Free elective	3.0
	Liberal studies elective	3.0
	Topical Physics course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>18.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">PHYS 408</a>	Physics Seminar	1.0
<a href="#">PHYS 428</a>	Quantum Mechanics III	3.0
<a href="#">PHYS 491</a>	Senior Research I	3.0
	Technical elective	3.0
	Topical Physics course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>13.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">PHYS 408</a>	Physics Seminar	1.0
<a href="#">PHYS 492</a>	Senior Research II	3.0
	Free elective	3.0
	Technical elective	3.0
	Topical Physics course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>13.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">PHYS 408</a>	Physics Seminar	1.0
<a href="#">PHYS 493</a>	Senior Research III	3.0
	Business elective	4.0
	Free elective	4.0
	<i>Term Credits</i>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>185.0</b>



### 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	<b>Contemporary Physics I</b>	5.0
PHYS 114	<b>Contemporary Physics II</b>	5.0
PHYS 115	<b>Contemporary Physics III</b>	5.0

#### Required Courses

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

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

\*\*Two terms, one credit each term.

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

### Minor in Physics

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

#### 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: Principles of Laser Physics	3.0
PHYS 451	Quantum Structure of Materials	4.0
PHYS 476	Nuclear and Particle Physics	4.0

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

# Drexel University

## Catalog 2009/2010

### **Psychology**

#### **About the Major**

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

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

For additional information, visit the Drexel University Department of Psychology homepage.

# Drexel University

## Catalog 2009/2010

### Psychology

*Bachelor of Science Degree: 182.0 credits*

Required courses (incoming students, 2009/2010)

#### 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 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
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
	<b>Total credits</b>	<b>56.0</b>

#### Other courses

<b>Total free elective credits</b>	<b>54.0</b>
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#### Departmental requirements

#### General Psychology requirements

PSY 111	<b>Preprofessional Psychology I*</b>	3.0
PSY 112	<b>Preprofessional Psychology II*</b>	3.0

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

#### **Sociology/Anthropology requirements**

	<b>Any Sociology course</b>	3.0
	<b>Any Anthropology course</b>	3.0

#### **Other courses**

##### **100-level requirements (Two of the following courses)**

PSY 120	<b>Developmental Psychology</b>	3.0
PSY 140	<b>Approaches to Personality</b>	3.0
PSY 150	<b>Introduction to Social Psychology</b>	3.0

#### **Required Psychology courses**

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

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

PSY 210	<b>Evolutionary Psychology</b>	3.0
PSY 213	<b>Sensation and Perception</b>	3.0
PSY 225	<b>Child Psychopathology</b>	3.0
PSY 245 WI	<b>Sports Psychology</b>	3.0
PSY 250 WI	<b>Industrial Psychology</b>	3.0
PSY 252	<b>Death and Dying</b>	3.0
PSY 262	<b>Science and Pseudoscience</b>	3.0
PSY 310	<b>Drugs and Human Behavior</b>	3.0
PSY 322	<b>Advanced Developmental Psychology</b>	3.0
PSY 332	<b>Human Factors and Cognitive Engineering</b>	3.0
PSY 337	<b>The Psychology of Human-Computer Interaction</b>	3.0
PSY 342	<b>Counseling Psychology</b>	3.0
PSY 350	<b>Advanced Social Psychology</b>	3.0
PSY 355	<b>Health Psychology</b>	3.0
PSY 356	<b>Women's Health Psychology</b>	3.0
PSY 410	<b>Neuropsychology</b>	3.0
PSY 440	<b>Advanced Personality Seminar</b>	3.0
PSY 442	<b>Theories and Practice in Clinical Psychology</b>	3.0

#### **Senior seminar sequence\***

PSY 490	<b>Psychology Senior Thesis I*</b>	4.0
PSY 491	<b>Psychology Senior Thesis II*</b>	4.0
PSY 492	<b>Psychology Senior Thesis III*</b>	4.0

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

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<b>Total departmental credits</b>	<b>72.0</b>
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*Writing-Intensive Course Requirements*

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

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

**BS Psychology**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

		<b>Credits</b>
<b>Term 1</b>		
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">PSY 111</a>	Preprofessional Psychology I	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">MATH 121</a>	Calculus I	4.0
or		
<a href="#">MATH 101</a>	Introduction to Math Analysis I	4.0
<a href="#">CHEM 101</a>	General Chemistry I	3.5
or		
<a href="#">PHYS 103</a>	General Physics I	4.0
or		
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
		<b>Term Credits</b>
		<b>14.5</b>
<b>Term 2</b>		
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">PSY 112</a>	Preprofessional Psychology II	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
<a href="#">BIO 104</a>	Biology II: Growth and Heredity	4.0
or		
<a href="#">CHEM 102</a>	General Chemistry II	4.5
or		
<a href="#">PHYS 104</a>	General Physics II	4.0
<a href="#">MATH 102</a>	Introduction to Math Analysis II	4.0
or		
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">PSY 120</a>	Developmental Psychology	3.0
or		
<a href="#">PSY 140</a>	Approaches to Personality	3.0
or		
<a href="#">PSY 150</a>	Introduction to Social Psychology	3.0
		<b>Term Credits</b>
		<b>18.0</b>
<b>Term 3</b>		
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">PSY 240</a>	Abnormal Psychology	3.0
<a href="#">PSY 120</a>	Developmental Psychology	3.0
or		
<a href="#">PSY 150</a>	Introduction to Social Psychology	3.0
or		
<a href="#">PSY 140</a>	Approaches to Personality	3.0
		Fine arts elective
		3.0
		Sociology/Anthropology elective (SOC or ANTH)
		3.0
		<b>Term Credits</b>
		<b>15.0</b>
<b>Term 4</b>		
<a href="#">PSCI 100</a>	Introduction to Political Science	4.0
<a href="#">ENGL 200</a>	Classical to Medieval Literature	3.0
or		
<a href="#">ENGL 202</a>	Romanticism to Modernism	3.0
or		
<a href="#">ENGL 201</a>	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>	<b>16.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CS 161</a>	Introduction to Computing	3.0
<a href="#">PSY 260</a>	Research Methods in Psychology	3.0
<a href="#">PSY 330</a>	Cognitive Psychology	3.0
<a href="#">ENGL 203</a>	Post-Colonial Literature I	3.0
or		
<a href="#">ENGL 204</a>	Post-Colonial Literature II	3.0
<a href="#">PSY 212</a>	Physiological Psychology	3.0
or		
<a href="#">PSY 230</a>	Psychology of Learning	3.0
	Philosophy (PHIL) elective	3.0
	<i>Term Credits</i>	<b>18.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">PSY 340</a>	Psychological Testing and Assessment	3.0
<a href="#">PSY 360</a>	Experimental Psychology	3.0
<a href="#">PSY 364</a>	Computer-Assisted Data Analysis I	3.0
<a href="#">PSY 230</a>	Psychology of Learning	3.0
or		
<a href="#">PSY 212</a>	Physiological Psychology	3.0
	Economics (ECON) elective	4.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">PSY 365</a>	Computer-Assisted Data Analysis II	3.0
	Free electives	9.0
	History elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 8</b>		<b>Credits</b>
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	12.0
	History elective	3.0
	<i>Term Credits</i>	<b>18.0</b>
<b>Term 9</b>		<b>Credits</b>
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	9.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">PSY 401</a>	History and Systems	3.0
	Free electives	6.0
	PSY 490 Senior Thesis I or an advanced PSY elective	4.0
	<i>Term Credits</i>	<b>13.0</b>
<b>Term 11</b>		<b>Credits</b>
	Free electives	9.0
	PSY 492 Senior Thesis III or an advanced PSY elective	4.0
	<i>Term Credits</i>	<b>13.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free electives	9.0
	PSY 492 Senior Thesis III or an advanced PSY elective	4.0
	<i>Term Credits</i>	<b>13.0</b>
	<b>Total Credits (minimum)</b>	<b>181.5</b>



### 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

<b>General Psychology course (PSY 101 or equivalent)</b>	<b>3.0</b>
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#### Required courses (Select eight of the following courses) **24.0**

PSY 120	<b>Developmental Psychology</b>	3.0
PSY 140	<b>Approaches to Personality</b>	3.0
PSY 150	<b>Introduction to Social Psychology</b>	3.0
PSY 210	<b>Evolutionary Psychology</b>	3.0
PSY 212	<b>Physiological Psychology</b>	3.0
PSY 213	<b>Sensation and Perception</b>	3.0
PSY 230	<b>Psychology of Learning</b>	3.0
PSY 240 (WI)	<b>Abnormal Psychology</b>	3.0
PSY 260	<b>Research Methods in Psychology</b>	3.0
PSY 330	<b>Cognitive Psychology</b>	3.0
PSY 340	<b>Psychological Testing and Assessment</b>	3.0
PSY 245 WI	<b>Sports Psychology</b>	3.0
PSY 250 WI	<b>Industrial Psychology</b>	3.0
PSY 252	<b>Death and Dying</b>	3.0
PSY 310	<b>Drugs and Human Behavior</b>	3.0
PSY 322	<b>Advanced Developmental Psychology</b>	3.0
PSY 332	<b>Human Factors and Cognitive Engineering</b>	3.0
PSY 337	<b>The Psychology of Human-Computer Interaction</b>	3.0
PSY 340	<b>Psychological Testing and Assessment</b>	3.0
PSY 343	<b>Counseling Psychology</b>	3.0
PSY 350	<b>Advanced Social Psychology</b>	3.0
PSY 360	<b>Experimental Psychology</b>	3.0
PSY 364	<b>Computer-Assisted Data Analysis I</b>	3.0
PSY 365	<b>Computer-Assisted Data Analysis II</b>	3.0
PSY 401	<b>History and Systems</b>	3.0
PSY 410	<b>Neuropsychology</b>	3.0
PSY 442	<b>Theories and Practice in Clinical Psychology</b>	3.0
PSY 480	<b>Directed Studies in Psychology</b>	Variable

### 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

<b>General Psychology course (PSY 101 or equivalent)</b>	<b>3.0</b>
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#### Required courses

	<b>24.0</b>	
PSY 212	<b>Physiological Psychology</b>	3.0
PSY 213	<b>Sensation and Perception</b>	3.0
PSY 250 WI	<b>Industrial Psychology</b>	3.0
PSY 330	<b>Cognitive Psychology</b>	3.0
PSY 332	<b>Human Factors and Cognitive Engineering</b>	3.0
PSY 337	<b>The Psychology of Human-Computer Interaction</b>	3.0
PSY 360	<b>Experimental Psychology</b>	3.0

#### One additional course from the following list

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

### **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.

Drexel University offers both a Bachelor of Arts (BA) and a Bachelor of Science (BS) in Political Science, enabling students to choose the program that best fits their future goals. The BS program provides a framework for those students who want to focus specifically on regulatory politics and public policy. The BA program provides a more traditional course of study, which includes language requirements and allows for options in the fulfillment of 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. Those interested in careers that combine history and political science may also choose to double major in those subjects.

### **Political Science Degrees**

The Department of History & Politics 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.

#### **Bachelor of Science**

Political Science (BS) Degree Requirements

Political Science (BS) Sample Plan of Study

#### **Bachelor of Arts**

Political Science (BA) Degree Requirements

Political Science (BA) Sample Plan of Study

# Drexel University

## Catalog 2009/2010

### Political Science

*Bachelor of Arts Degree: 182.0 credits*

Required courses (incoming students, 2009/2010)

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 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 I	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

**BA Political Science**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">MATH 100</a> Fundamentals of Mathematics	3.0
<a href="#">PSCI 110</a> American Government I	4.0
<a href="#">PSCI 150</a> International Politics	4.0
<a href="#">UNIV 101</a> The Drexel Experience	2.0
<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>	
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">PSCI 140</a> Introduction to Comparative Political Analysis	4.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
Foreign language course (103-level or higher)	4.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<b>19.0-20.0</b>
<b>Term 3</b>	
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">PSCI 120</a> History of Political Thought	4.0
<a href="#">PSCI 130</a> Research Methods in Political Science I	4.0
Foreign language course (201-level or higher)	4.0
Science elective (See degree requirements)	3.0
<i>Term Credits</i>	<b>18.0</b>
<b>Term 4</b>	
Diversity studies elective	3.0
Free elective	3.0
History elective (200-level and above HIST course)	3.0
Humanities/Fine Arts elective	3.0
Social and Behavioral Sciences electives	6.0
<i>Term Credits</i>	<b>18.0</b>
<b>Term 5</b>	
<a href="#">PSCI 240</a> 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
Social and Behavioral Sciences elective	3.0
<i>Term Credits</i>	<b>15.0</b>
<b>Term 6</b>	
<a href="#">PSCI 211</a> American Government II	4.0
Diversity studies elective	3.0
Free elective	3.0
History elective (200-level and above HIST course)	3.0
International studies elective	3.0
<i>Term Credits</i>	<b>16.0</b>
<b>Term 7</b>	
<a href="#">PSCI 220</a> Constitutional and Judicial Process	3.0
<a href="#">PSCI 230</a> Research Methods in Political Science II	4.0
Free elective	3.0

	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	<b>Term Credits</b>	<b>16.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PSCI 250</a>	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
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">PSCI 270</a>	Problems of Individual Liberty and Government Authority	3.0
	Free electives	4.0-6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>13.0-15.0</b>
<b>Term 10</b>		<b>Credits</b>
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0-185.0</b>

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# Drexel University

## Catalog 2009/2010

### Political Science

*Bachelor of Science Degree: 182.0 credits*

Required courses (incoming students, 2009/2010)

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
<b>or</b>		
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 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
<b>or</b>		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
<b>or</b>		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0
<b>or</b>		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

### Foundation requirements

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
<b>or</b>		
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
ENGL 202 WI	Romanticism to Modernism	3.0

Post-Colonial Literature II:



ENGL 204	Africa/Asia/Caribbean/Japan/Middle East	3.0
MUSC 130	Introduction to Music	3.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
PHIL 105	Critical Reasoning	3.0
STAT	Any 4-credit statistics course	4.0

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**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 I	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
	<b>History Electives*</b>	<b>9.0</b>

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

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**Political Science Electives\*\* 30.0 Credits**

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

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**Free Electives 40.0 Credits**

**BS Political Science**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
<a href="#">PSCI 110</a> American Government I	4.0
<a href="#">PSCI 150</a> International Politics	4.0
<a href="#">UNIV 101</a> The Drexel Experience	2.0
<i>Term Credits</i>	<i>17.0</i>
<b>Term 2</b>	
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">MATH 102</a> Introduction to Analysis II	4.0
<a href="#">PSCI 140</a> Introduction to Comparative Political Analysis	4.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
<i>Term Credits</i>	<i>18.0</i>
<b>Term 3</b>	
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">PSCI 120</a> History of Political Thought	4.0
<a href="#">PSCI 130</a> Research Methods in Political Science I	4.0
<a href="#">PSY 101</a> General Psychology I	3.0
Free elective	3.0
<i>Term Credits</i>	<i>17.0</i>
<b>Term 4</b>	
<a href="#">ENGL 202</a> Romanticism to Modernism	3.0
<a href="#">MUSC 130</a> Introduction to Music	3.0
History elective (200-level and above HIST course)	3.0
Statistics elective	4.0
Science sequence course 1 (See degree requirements list)	4.0
<i>Term Credits</i>	<i>17.0</i>
<b>Term 5</b>	
<a href="#">ENGL 204</a> Post-Colonial Literature II	3.0
<a href="#">PSCI 240</a> Comparative Government	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>	<i>16.0</i>
<b>Term 6</b>	
<a href="#">ECON 201</a> Principles of Microeconomics	4.0
<a href="#">PSCI 211</a> American Government II	4.0
<a href="#">ANTH 110</a> The Human Past	3.0
or	
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
Free elective	3.0
History elective (200-level and above HIST course)	3.0
<i>Term Credits</i>	<i>17.0</i>
<b>Term 7</b>	
<a href="#">ECON 202</a> Principles of Macroeconomics	4.0
<a href="#">PHIL 105</a>	

	Critical Reasoning	3.0
<a href="#">PSCI 220</a>	Constitutional and Judicial Process	3.0
<a href="#">PSCI 230</a>	Research Methods in Political Science II	4.0
	Free elective	3.0
	<b>Term Credits</b>	<b>17.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">PSCI 250</a>	American Foreign Policy	3.0
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">PSCI 270</a>	Problems of Individual Liberty and Government Authority	3.0
	Free electives	3.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 10</b>		<b>Credits</b>
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
	Political Science electives (300-level and above PSCI courses)	6.0
	Free electives	6.0
	<b>Term Credits</b>	<b>12.0</b>
<b>Term 12</b>		<b>Credits</b>
	Free electives	6.0
	Political Science electives (300-level and above PSCI courses)	6.0
	<b>Term Credits</b>	<b>12.0</b>
	<b>Total Credits (minimum)</b>	<b>182.0</b>

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# Drexel University

## Catalog 2009/2010

### Minor in Politics

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

#### Required courses

<b>Three of the following 4-credit survey courses:</b>		<b>12.0</b>
PSCI 100	<b>Introduction to Political Science</b>	4.0
PSCI 110	<b>American Government I</b>	4.0
PSCI 120	<b>History of Political Thought</b>	4.0
PSCI 130	<b>Research Methods in Political Science I</b>	4.0
PSCI 140	<b>Introduction to Comparative Political Analysis</b>	4.0
PSCI 150	<b>International Politics</b>	4.0

**Political Science electives** **12.0**

**12.0 credits of any additional 200-level or higher PSCI courses.**

# Drexel University

## Catalog 2009/2010

### **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.

# Drexel University

## Catalog 2009/2010

### Sociology

*Bachelor of Arts Degree: 182.0 credits*

Required courses (incoming students, 2009/2010)

<b>University Requirements</b>		<b>23.0- 27.0 Credits</b>
ENGL 101	<b>Expository Writing and Reading</b>	3.0
ENGL 102	<b>Persuasive Writing and Reading</b>	3.0
ENGL 103	<b>Analytical Writing and Reading</b>	3.0
UNIV 101	<b>The Drexel Experience</b>	2.0
<b>Two Mathematics courses</b>		6.0-8.0
<b>Two Science courses</b>		6.0-8.0
<b>College Requirements</b>		<b>44.0- 52.0 Credits</b>
<b>Foreign Language</b>		
<b>A minimum of two consecutive foreign language* courses</b>		8.0- 16.0
* 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.		
<b>Humanities and Fine Arts</b>		
<b>Four Humanities/Fine Arts courses</b>		12.0
<b>Social and Behavioral Sciences</b>		
COM 150	<b>Mass Media and Society</b>	3.0
SOC 101	<b>Introduction to Sociology</b>	3.0
<b>Two additional Social and Behavioral Sciences courses</b>		6.0
<b>International Studies</b>		
<b>Two International Studies courses</b>		6.0
<b>Studies in Diversity</b>		
ANTH 101	<b>Cultural Diversity: Introduction to Cultural Anthropology</b>	3.0
<b>One additional Studies in Diversity course</b>		3.0
<b>Sociology Core Requirements</b>		<b>51.0 - 57.0 Credits</b>
<b>Social Justice Sequence</b>		
SOC 270	<b>Theory of Applied and Community Sociology</b>	3.0
ANTH 370	<b>Ethnographic Methods</b>	3.0
SOC 370	<b>Practicum in Applied and Community Sociology</b>	3.0-9.0
SOC 470 WI	<b>Social Change and Social Planning</b>	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	Grant Writing	3.0

Students select four of the following core courses:

SOC 205	Criminology and Criminal Justice	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 220	Wealth and Power	3.0
SOC 240	Urban Sociology	3.0
SOC 320 WI	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 the 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 310	Topics in Political Sociology	3.0
SOC 335	Sociology of Education I	3.0
SOC 350	Research Methods II	3.0
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	<b>Death and Dying</b>	3.0
PSY 350	<b>Advanced Social Psychology</b>	3.0
UNIV 380	<b>Special Topics: University-Wide</b>	2.0 - 3.0

<b>Free Electives</b>	<b>16.0- 34.0 Credits</b>
<b>Free electives</b>	30.0- 35.0

*Writing-Intensive Course Requirements*

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

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



**BA Sociology**  
5 YR UG Co-op Concentration

**Recommended Plan Of Study**

	<b>Credits</b>
<b>Term 1</b>	
<a href="#">ENGL 101</a> Expository Writing and Reading	3.0
<a href="#">SOC 101</a> Introduction to Sociology	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
<a href="#">MATH 121</a> Calculus I	4.0
or	
<a href="#">MATH 101</a> Introduction to Analysis I	4.0
Foreign language course	4.0
Philosophy (PHIL) elective	3.0
<i>Term Credits</i>	<i>18.0</i>
<b>Term 2</b>	<b>Credits</b>
<a href="#">COM 150</a> Mass Media and Society	3.0
<a href="#">ENGL 102</a> Persuasive Writing and Reading	3.0
<a href="#">UNIV 101</a> The Drexel Experience	1.0
<a href="#">MATH 122</a> Calculus II	4.0
or	
<a href="#">MATH 102</a> Introduction to Analysis II	4.0
Foreign language course	4.0
<i>Term Credits</i>	<i>15.0</i>
<b>Term 3</b>	<b>Credits</b>
<a href="#">ANTH 101</a> Introduction to Cultural Diversity	3.0
<a href="#">ENGL 103</a> Analytical Writing and Reading	3.0
<a href="#">SOC 260</a> 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>
<b>Term 4</b>	<b>Credits</b>
<a href="#">COM 220</a> Introduction to Communication Research	3.0
<a href="#">SOC 250</a> Research Methods I	3.0
Foreign language course	4.0
Sociology core course (See degree requirements)	3.0
Writing/Communication elective (See approved course list)	3.0
<i>Term Credits</i>	<i>16.0</i>
<b>Term 5</b>	<b>Credits</b>
<a href="#">ANTH 370</a> Ethnographic Methods	3.0
<a href="#">COM 210</a> Theory and Models of Communication	3.0
<a href="#">SOC 270</a> Theory of Applied and Community Sociology	3.0
Free elective	3.0
Science elective (See degree requirements)	3.0-4.0
<i>Term Credits</i>	<i>15.0-16.0</i>
<b>Term 6</b>	<b>Credits</b>
<a href="#">SOC 364</a> Computer-Assisted Data Analysis	3.0
Diversity studies elective	3.0
Additional program course (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>

<b>Term 7</b>		<b>Credits</b>
<a href="#">SOC 470</a>	Social Change & Planning	3.0
.	International studies elective	3.0
.	Sociology core course (See degree requirements)	3.0
.	Additional program course (See degree requirements list)	3.0
.	Social and Behavioral Sciences elective	3.0
.	<i>Term Credits</i>	<i>15.0</i>
<b>Term 8</b>		<b>Credits</b>
<a href="#">SOC 370</a>	Practicum in Applied and Community Sociology	3.0
.	Free elective	3.0
.	Sociology core courses (See degree requirements)	6.0
.	Additional program course (See degree requirements list)	3.0
.	<i>Term Credits</i>	<i>15.0</i>
<b>Term 9</b>		<b>Credits</b>
.	Free elective	3.0
.	Humanities/Fine Arts elective	3.0
.	International studies elective	3.0
.	Additional program courses (See degree requirements list)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
<b>Term 10</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
.	Free elective	3.0
.	Humanities/Fine Arts elective	3.0
.	Additional program courses (See degree requirements list)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
<b>Term 11</b>		<b>Credits</b>
<a href="#">SOC 460</a>	Contemporary Social Theory	3.0
.	Free electives	6.0
.	Additional program courses (See degree requirements list)	6.0
.	<i>Term Credits</i>	<i>15.0</i>
<b>Term 12</b>		<b>Credits</b>
.	Free electives	6.0
.	Humanities/Fine Arts elective	3.0
.	Additional program courses (See degree requirements list)	3.0
.	<i>Term Credits</i>	<i>12.0</i>
	<b>Total Credits (minimum)</b>	<b>182.0-184.0</b>

### 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	<b>Research Methods I</b>	3.0
SOC 260 WI	<b>Classical Social Theory</b>	3.0
SOC 460 WI	<b>Contemporary Social Theory</b>	3.0

#### Five of the following courses 15.0

ANTH 220	<b>Aging in Cross-Cultural Perspective</b>	3.0
ANTH 310	<b>Societies in Transition</b>	3.0
SOC 110	<b>Sociology of the Future</b>	3.0
SOC 115	<b>Social Problems</b>	3.0
SOC 120	<b>Sociology of the Family</b>	3.0
SOC 125	<b>Sociology of the Aging</b>	3.0
SOC 205	<b>Criminology and Criminal Justice</b>	3.0
SOC 210	<b>Race and Ethnic Relations</b>	3.0
SOC 215	<b>Industrial Sociology</b>	3.0
SOC 220	<b>Wealth and Power</b>	3.0
SOC 225	<b>Technology and Aging in Industrial Societies</b>	3.0
SOC 230	<b>Women and Men in a Changing Society</b>	3.0
SOC 235	<b>Sociology of Health</b>	3.0
SOC 310	<b>Topics in Political Sociology</b>	3.0
SOC 320 WI	<b>Sociology of Deviant Behavior</b>	3.0
SOC 330	<b>Developing Nations and the International Division of Labor</b>	3.0
SOC 335	<b>Sociology of Education and Literacy I</b>	3.0
SOC 336	<b>Sociology of Education and Literacy II</b>	3.0
SOC 340	<b>Globalization</b>	3.0
SOC 350	<b>Research Methods II</b>	3.0
SOC 470 WI	<b>Social Change and Social Planning</b>	3.0

### Unified Science

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

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

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

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

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

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

# Drexel University

## Catalog 2009/2010

### Unified Science

*Bachelor of Science Degree: 185.5 credits*

Required courses (incoming students, 2009/2010)

#### 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
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
UNIV 101	The Drexel Experience	2.0
	Business electives	6.0
	Computer programming	3.0
	Liberal studies electives	12.0
	Free electives	41.0

		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 306	Biochemistry Laboratory	2.0
BIO 311	Metabolism	4.0
BIO 404	Structure and Function of Biomolecules	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 201	Fundamentals of Physics III	4.0
PHYS 217	Thermodynamics	4.0
	Physics elective	3.0
	Science sequence	8.0
	Science elective	8.0

#### Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year.

## Recommended Plan Of Study

### BS Unified Science 5 YR UG Co-op Concentration

<b>Term 1</b>		<b>Credits</b>
<a href="#">BIO 121</a>	Physiology of Nutrition	4.5
<a href="#">CHEM 101</a>	General Chemistry I	3.5
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 121</a>	Calculus I	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 2</b>		<b>Credits</b>
<a href="#">BIO 122</a>	Cells and Genetics	4.5
<a href="#">CHEM 102</a>	General Chemistry II	4.5
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 122</a>	Calculus II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 3</b>		<b>Credits</b>
<a href="#">BIO 123</a>	Organismal Diversity & Ecology	4.5
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">MATH 123</a>	Calculus III	4.0
<a href="#">PHYS 101</a>	Fundamentals of Physics I	4.0
	<i>Term Credits</i>	<b>15.5</b>
<b>Term 4</b>		<b>Credits</b>
<a href="#">CHEM 241</a>	Organic Chemistry I	4.0
<a href="#">MATH 200</a>	Multivariate Calculus	4.0
<a href="#">PHYS 102</a>	Fundamentals of Physics II	4.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 5</b>		<b>Credits</b>
<a href="#">CHEM 242</a>	Organic Chemistry II	4.0
<a href="#">MATH 201</a>	Linear Algebra	4.0
<a href="#">PHYS 201</a>	Fundamentals of Physics III	4.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 6</b>		<b>Credits</b>
<a href="#">BIO 306</a>	Biochemistry Laboratory	2.0
<a href="#">BIO 311</a>	Metabolism	4.0
<a href="#">MATH 210</a>	Differential Equations	4.0
<a href="#">PHYS 212</a>	Physics IV	4.0
	Liberal arts elective	3.0
	<i>Term Credits</i>	<b>17.0</b>
<b>Term 7</b>		<b>Credits</b>
<a href="#">BIO 218</a>	Principles of Molecular Biology	3.0
<a href="#">BIO 219</a>	Techniques in Molecular Biology	2.5
<a href="#">BIO 404</a>	Structure and Function of Biomolecules	4.0
	Free elective	3.0
	Liberal arts elective	3.0
	<i>Term Credits</i>	<b>15.5</b>

<b>Term 8</b>		<b>Credits</b>
<a href="#">BIO 214</a>	Principles of Cell Biology	3.0
<a href="#">BIO 215</a>	Techniques in Cell Biology	2.5
<a href="#">PHYS 217</a>	Thermodynamics	4.0
.	Liberal arts elective	3.0
.	First course in a 3-part laboratory science sequence	4.0-4.5
.	<i>Term Credits</i>	<b>16.5-17.0</b>
<b>Term 9</b>		<b>Credits</b>
.	Computer programming elective	3.0
.	Liberal arts elective	3.0
.	Science elective (See degree requirements)	4.0
.	Second course in a 3-part laboratory science sequence	4.0
.	<i>Term Credits</i>	<b>14.0</b>
<b>Term 10</b>		<b>Credits</b>
.	Business elective	3.0
.	Free electives	12.0
.	<i>Term Credits</i>	<b>15.0</b>
<b>Term 11</b>		<b>Credits</b>
.	Business elective	4.0
.	Free electives	6.0
.	Science elective (See degree requirements)	4.0
.	<i>Term Credits</i>	<b>14.0</b>
<b>Term 12</b>		<b>Credits</b>
.	Free electives	13.0
.	<i>Term Credits</i>	<b>13.0</b>
	<b>Total Credits (minimum)</b>	<b>183.5-184.0</b>

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### **Urban Environmental Studies**

#### **About Urban Environmental Studies**

Ecological problems and their consequences are concentrated in urban areas. Problems such as air pollution, exposure to toxic chemicals, noise, urban sprawl and groundwater contamination are endemic in cities, causing damage to ecological systems, property values, and human health. In the years to come, there will be an increasingly urgent need to move toward solving these problems.

The causes and the consequences of urban ecological problems are extremely complex, involving interplays between the physical and biological characteristics of the region, the development of the urban area's infrastructure, and the social, economic and political situation of the city. Solutions derived from an inadequate understanding of the confluence these factors often entail costly, ineffective regulations; unintended consequences that further damage the ecosystem; incompatible land uses; and increases in preventable health problems among urban populations. In an era of shrinking budgets and growing environmental problems, it is more urgent than ever that the people who will be charged with crafting solutions be broadly trained and thoroughly aware of all the ramifications of planning and regulatory decisions.

#### **About the Curriculum**

Producing people trained to meet the urban ecological challenges ahead requires a holistic, interdisciplinary approach to education, in which the student gains knowledge in many diverse areas of study. The BS in Urban Environmental Studies is a multidisciplinary program designed to meet the needs of governmental agencies, corporations, and nonprofit organizations who develop, implement, or are impacted by environmental policies.

For more information contact the Department of Culture and Communications at Drexel University.



# Drexel University

## Catalog 2009/2010

### Urban Environmental Studies

*Bachelor of Science Degree: 184.0 credits*

Required courses (incoming students, 2009/2010)

General requirements		55.0 Credits
UNIV 101	The Drexel Experience	2.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
COM 380	Special Topics in Communication Theory: Environmental Communication	3.0
PHIL 341	Philosophy of the Environment	3.0
PSCI 110	American Government	4.0
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 300	Literature & Science	3.0
ENGL 325	Topics in World Literature: Environmental Literature	3.0
SOC 101	Introduction to Sociology	3.0
	Two history electives	6.0

**One of the following math sequences:**

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
<b>or</b>		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0

### Urban Environmental Studies Core Requirements

55.0  
Credits

SOC 270	Theory/ Applied, and Community Sociology	3.0
ANTH 370	Ethnographic Methods	3.0

**Theory Sequence:**

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

**Other Social Science courses:**

ANTH 360	Culture and the Environment	3.0
ECON 351	Resource and Environmental Economics	4.0
ENVS 370	Practice of Environmental Economics	3.0
PSCI 331	Environmental Politics	3.0
PSCI 427	Special Studies in Political Science: Urban Politics	3.0
SOC 240	Urban Sociology	3.0
ENVP 360	Environmental Movements in America	3.0
ENVP 345	Sociology of the Environment	3.0
ENVP 346	Environmental Justice	3.0
ENVP 365	Introduction to Environmental Policy Analysis	3.0

**Physical/Natural Science Requirements****51.0  
Credits**

BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
BIO 106	Organismal Biology	4.0
CHEM 151	Applied Chemistry	3.0
ENVS 260	Environmental Science and Society I	3.0
ENVS 262	Environmental Science and Society II	3.0
ENVS 284 WI	Physiological and Population Ecology	5.0
ENVS 286 WI	Community and Ecosystem Ecology	5.0
ENVS 321	Environmental Health*	3.0
ENVS 338	Biodiversity and Conservation	3.0
ENVS 342	Bioclimatology	3.0
ENVS 436	Principles of Toxicology I	3.0
ENVS 441 WI	Issues in Global Change I	2.0
ENVS 442	Issues in Global Change II	2.0
PHEV 145	Weather 1: Climate and Global Change	4.0

**Urban Studies Electives****9.0  
Credits****Students select three of the following Urban Environmental Studies electives:**

ANTH 310	Societies in Transition	3.0
BIO 210	Biology of Cancer	2.0
COM 310	Mass Media and Society	3.0
ENVS 316	Sanitary Microbiology	3.0
ENVS 330	Aquatic Ecology	3.0
ENVS 335	Industrial Safety	3.0
ENVS 431	Environmental Epidemiology	3.0
ENVS 437	Principles of Toxicology II	3.0
HIST 285	Technology in Historical Perspective	3.0
PSCI 371	Science, Technology and Public Policy	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 220	Wealth and Power	3.0
SOC 340	Globalization	3.0
SOC 343	American Experience of Wilderness	3.0
SOC 344	Social Movements	3.0
SOC 350	Research Methods II	3.0
SOC 365	Data Analysis II	3.0

SOC 380	<b>Special Topics in Sociology*</b>	3.0
ANTH 380	<b>Special Topics in Anthropology*</b>	3.0
COM 380	<b>Special Topics in Communication Theory*</b>	3.0

\*Additional special topics courses as appropriate.

<b>Electives</b>	<b>14.0 Credits</b>
<b>Free electives</b>	<b>14.0</b>

*Writing-Intensive Course Requirements*

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

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

## Recommended Plan Of Study

### BS Urban Environmental Studies

4 YR UG No Co-op Concentration

		Credits
<b>Term 1</b>		
<a href="#">BIO 102</a>	Biology I: Cells and Tissues	4.0
<a href="#">ENGL 101</a>	Expository Writing and Reading	3.0
<a href="#">MATH 101</a>	Introduction to Analysis I	4.0
<a href="#">SOC 101</a>	Introduction to Sociology	3.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 2</b>		
<a href="#">BIO 104</a>	Biology II: Growth and Heredity	4.0
<a href="#">ENGL 102</a>	Persuasive Writing and Reading	3.0
<a href="#">MATH 102</a>	Introduction to Analysis II	4.0
<a href="#">UNIV 101</a>	The Drexel Experience	1.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 3</b>		
<a href="#">ANTH 101</a>	Cultural Diversity: Introduction to Cultural Anthropology	3.0
<a href="#">BIO 106</a>	Biology III: Organismal Biology	4.0
<a href="#">ENGL 103</a>	Analytical Writing and Reading	3.0
<a href="#">PSCI 110</a>	American Government I	3.0
<a href="#">SOC 240</a>	Urban Sociology	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 4</b>		
<a href="#">ANTH 360</a>	Culture and the Environment	3.0
<a href="#">CHEM 151</a>	Applied Chemistry	3.0
<a href="#">COM 220</a>	Introduction to Communication Research	3.0
<a href="#">ECON 201</a>	Principles of Microeconomics	4.0
<a href="#">ENVS 260</a>	Environmental Science & Society I	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 5</b>		
<a href="#">ECON 202</a>	Principles of Macroeconomics	4.0
<a href="#">ENVP 345</a>	Sociology of the Environment	3.0
<a href="#">ENVS 262</a>	Environmental Science & Society II	3.0
<a href="#">SOC 260</a>	Classical Social Theory	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 6</b>		
<a href="#">PSCI 331</a>	Environmental Politics	3.0
<a href="#">SOC 250</a>	Research Methods I	3.0
<a href="#">SOC 270</a>	Theory of Applied and Community Sociology	3.0
	Free elective	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 7</b>		
<a href="#">ENVP 346</a>	Environmental Justice	3.0
<a href="#">ENVP 360</a>	Environmental Movements in America	3.0
<a href="#">PHEV 145</a>		

	Weather I: Climate and Global Change	4.0
<a href="#">PSCI 427</a>	Urban Politics	3.0
	Free elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 8</b>		<b>Credits</b>
<a href="#">ANTH 370</a>	Ethnographic Methods	3.0
<a href="#">COM 210</a>	Theory and Models of Communication	3.0
<a href="#">ENGL 325</a>	Topics in World Literature: Non-Western Environmental Literature	3.0
<a href="#">ENVS 284</a>	Physiological and Population Ecology	3.0
	Free elective	3.0
	<i>Term Credits</i>	<b>15.0</b>
<b>Term 9</b>		<b>Credits</b>
<a href="#">ECON 351</a>	Resource and Environmental Economics	4.0
<a href="#">ENGL 300</a>	Literature and Science	3.0
<a href="#">ENVS 370</a>	Practice of Environmental Economics	3.0
<a href="#">SOC 364</a>	Computer-Assisted Data Analysis I	3.0
	History elective	3.0
	<i>Term Credits</i>	<b>16.0</b>
<b>Term 10</b>		<b>Credits</b>
<a href="#">ENVP 365</a>	Introduction to Environmental Policy Analysis	3.0
<a href="#">ENVS 286</a>	Community and Ecosystem Ecology	3.0
<a href="#">ENVS 436</a>	Principles of Toxicology I	3.0
<a href="#">PHIL 341</a>	Philosophy of the Environment	3.0
	<i>Term Credits</i>	<b>12.0</b>
<b>Term 11</b>		<b>Credits</b>
<a href="#">ANTH 410</a>	Cultural Theory	3.0
<a href="#">ENVS 342</a>	Bioclimatology	3.0
<a href="#">ENVS 441</a>	Issues Global Change I: Seminar	2.0
<a href="#">HIST 285</a>	Technology in Historical Perspective	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
	<i>Term Credits</i>	<b>14.0</b>
<b>Term 12</b>		<b>Credits</b>
<a href="#">COM 380</a>	Special Topics in Communication: Environmental Communication	3.0
<a href="#">ENVS 321</a>	Environmental Health	3.0
<a href="#">ENVS 338</a>	Biodiversity and Conservation	3.0
<a href="#">ENVS 442</a>	Issues Global Climate Change II: Research	2.0
	Free elective	3.0
	<i>Term Credits</i>	<b>14.0</b>
	<b>Total Credits (minimum)</b>	<b>180.0</b>

### Minor in Urban Environmental Studies

The urban environmental studies minor is an interdisciplinary minor designed to give students specializing in other fields a background in contemporary urban environmental issues and the ability to analyze such issues. For students majoring in such fields as business and engineering, the minor in urban 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 urban environmental studies offers the opportunity to focus on the social- and natural-science aspects of the urban 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	<b>Culture and the Environment</b>	3.0
ENVS 260	<b>Environmental Science and Society I</b>	3.0
ENVS 262	<b>Environmental Science and Society II</b>	3.0
SOC 240	<b>Urban Sociology</b>	3.0
SOC 341	<b>Environmental Movements in the U.S.</b>	3.0
SOC 345	<b>Sociology of the Environment</b>	3.0

#### Natural Science Electives

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

BIO 102	<b>Biology I: Cells and Tissues</b>	4.0
BIO 106	<b>Organismal Biology</b>	4.0
CHEM 151	<b>Applied Chemistry</b>	3.0
PHEV 145	<b>Weather 1: Climate and Global Change</b>	4.0
ENVS 284 WI	<b>Physiological and Population Ecology</b>	5.0
ENVS 286 WI	<b>Community and Ecosystem Ecology</b>	5.0
ENVS 321	<b>Environmental Health*</b>	3.0
ENVS 338	<b>Biodiversity and Conservation</b>	3.0
ENVS 436	<b>Toxicology and Human Physiology</b>	3.0
ENVS 441	<b>Issues in Global Climate Change I</b>	2.0
ENVS 442	<b>Issues in Global Climate Change II</b>	2.0

\*BIO 114, BIO 115 or BIO 117 are prerequisites for ENVS 321.

### 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	<b>Introduction to Africana Studies</b>	3.0
AFAS 201	<b>Cross-Currents in Africana Studies</b>	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	<b>African American Herstories</b>	3.0
AFAS 295	<b>Special Topics in Africana Studies</b>	3.0
AFAS 401	<b>Urban Social Justice Practicum I</b>	3.0
AFAS 402	<b>Urban Social Justice Practicum II</b>	3.0
AFAS 301	<b>Politics of Hip Hop</b>	3.0
AFAS 395	<b>Special Topics in Africana Studies</b>	3.0
ANTH 101	<b>Cultural Diversity</b>	3.0
ANTH 310	<b>Societies in Transition: The Impact of Modernization and the Third World</b>	3.0
ENGL 203 WI	<b>Post-Colonial Literature I</b>	3.0
ENGL 204	<b>Post-Colonial Literature II</b>	3.0
ENGL 325	<b>Special Topics in World Literature: Latin American Literature</b>	3.0
HIST 216	<b>Freedom in America</b>	3.0
HIST 215	<b>American Slavery</b>	3.0
MUSC 107	<b>Jazz Ensemble and Combo</b>	3.0
MUSC 333	<b>African-American Music in the United States</b>	3.0
PSCI 354	<b>US and Third World Politics</b>	3.0
PSCI 372	<b>City in Urban Politics</b>	3.0
WMST 240	<b>Women in Society/Global Context</b>	3.0
WMST 280	<b>Special Topics in Women's Studies: Language, Gender and Power</b>	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
	<b>Greek language course (GREC 101, GREC 102 or GREC 103)</b>	4.0
ANTH 212	<b>Anthropology of the Mediterranean</b>	3.0
or		
GREC 212	<b>Greek Folklore</b>	

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

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

#### Drexel in Crete Study Abroad Program course offerings:

ANTH 380	<b>Special Studies in Anthropology: Crete Through the Looking Glass</b>	3.0
LANG 180	<b>Special Topics in Languages: Communicate in Greek: Philoxenia</b>	3.0
IAS 360	<b>Special Topics in World Civilization: Cretan Civilization: Unraveling Ariadne's Thread</b>	3.0
GREC 380	<b>Special Topics in Greek Studies: Greek and Cretan History, Economy and Society</b>	3.0

\* Students may only select this course as a Greek Studies elective if A [ 0 ^ \ ^ ç ã ~ • | ^ & @ • ^ } È



### 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:

<b>Required courses</b>		<b>9.0</b>
JUDA 201	<b>Jewish Literature and Civilization*</b>	3.0
JUDA 202	<b>Jewish Life and Culture in the Middle Ages**</b>	3.0
JUDA 203	<b>Modern Jewish History***</b>	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.

### 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	<b>Introduction to Women's Studies</b>	3.0
WMST 301	<b>Seminar in Feminist Theory</b>	3.0
	<b>Electives*</b>	18.0

\*Chosen from an approved list including departmentally cross-linked courses and WMST 280 (Special Topics) courses.

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

\*By permission only.

### 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	<b>Literature and Society: Portrayals of Mental Disorders</b>	3.0
ENGL 370	<b>Topics in Literature and Medicine: Illness and Healing in Literature</b>	3.0
ENGL 370	<b>Topics in Literature and Medicine: The Physician in Literature and Film</b>	3.0
ENGL 370	<b>Topics in Literature and Medicine: Health Matters in Drama</b>	3.0

### **Philosophy**

Students select one of the following philosophy courses:

PHIL 251	<b>Ethics</b>	3.0
PHIL 321	<b>Biomedical Ethics</b>	3.0
PHIL 355	<b>Philosophy of Medicine</b>	3.0
PHIL 361	<b>Philosophy of Science</b>	3.0

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

### ***Africana Studies***

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

### ***Anthropology***

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

### ***Art History***

ARTH 320	<b>Art in the Age of Technology</b>	3.0
ARTH 465	<b>Special Topics in Art History</b>	3.0

### ***Biology***

BIO 212	<b>Biotechnology</b>	3.0
BMES 338	<b>Biomedical Ethics and Law</b>	3.0

### ***Environmental Studies***

ENVS 321	<b>Environmental Health</b>	3.0
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### ***History***

HIST 280	<b>History of Science I</b>	3.0
HIST 285	<b>Technology in Historical Perspective</b>	3.0

### ***Psychology***

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

### ***Sociology***

SOC 120	<b>Sociology of the Family</b>	3.0
SOC 125	<b>Sociology of the Aging</b>	3.0
SOC 225	<b>Technology and the Aging in Industrial Societies</b>	3.0
SOC 235	<b>Sociology of Health</b>	3.0