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The College of Arts and Sciences

Mission Statement

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

About the College of Arts and Sciences

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

Each 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 technology 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.

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

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

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The College of Arts and Science

Bachelor of Arts Degree Programs

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

The B.A. 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 B.A. 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 B.A. degree prepares students for an everchanging and culturally diverse world and will provide them with the tools they will need to be leaders in industry, arts, government, and human services. Drexel's strong advising program helps students learn more about the degree options and which option best matches each student's long-term goals.

Curricular Organization for Science and Mathematics Majors

All Students in the majors in biological sciences, chemistry, mathematics, nutrition and foods, physics, and unified science study essentially the same or 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 and adviser from his or her major department.

Curricular Organization for Humanities and Social Science Majors

Students majoring in the humanities and social sciences complete the same or

similar sets of courses in the freshman and sophomore years. Some of these courses (for instance, the humanities sequences) are identical for all students, including science majors, while others may vary by discipline (for instance, Calculus I for majors in the technical and science track of the communication major but Calculus I or Introduction to Analysis I for psychology majors). All students majoring in a humanities or social sciences field are encouraged to take at least one course in their proposed field of concentration in the freshman year. Intensive work in a specific concentration begins in the sophomore year, but in each year after the first, students have an opportunity to take at least one elective course. All humanities and social sciences majors have a significant degree of flexibility, allowing them to complete disciplinary requirements and, through electives, to take a minor or another major or 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.

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 progress toward their educational goals essentially at their own pace. Primarily through advanced placement, credit by examination, flexibility of scheduling, and independent study, the program makes possible the completion of the undergraduate curriculum and the master's degree in science disciplines in five years. 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 law, medicine, veterinary medicine, or dentistry may obtain preprofessional counseling and assistance in making application from the Office of Preprofessional Programs, 215-895-2437.

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

A "WI" next to a course in this catalog indicates that this course can fulfill a writing-intensive requirement. Departments will designate specific sections of such

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

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Anthropology

About the Major

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

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

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



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Anthropology

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

General requirements	31.0 - 35.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Two Mathematics courses	6.0-8.0
Two Science courses	6.0-8.0
Foreign language courses	
A minimum of two consecutive language courses	8.0
Humanities and Fine Arts 12.0 Credits	
LING 102 Language and Society	3.0
COM 150 Mass Media and Society	3.0
Two Humanities and Fine Arts courses	6.0
Social and Behavioral sciences 12.0 Credits	
ANTH 110 The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ANTH 330 Media Anthropology	3.0
COM 355 Ethnography of Communication	3.0
SOC 101 Introduction to Sociology	3.0
International Studies 6.0 Credits	
ANTH 310 Societies in Transition	3.0
International Studies elective	3.0
Studies in Diversity 6.0 Credits	
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 215 Anthropology of Gender	3.0
Anthropology requirements 36.0 Credits	
Community Research	
SOC 270 Theory of Applied and Community Sociology	3.0
ANTH 370 Ethnographic Methods	3.0

Methods Sequence

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

Theory Sequence

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

Anthropology Program Requirements 30.0 Credits

Students select 30.0 credits from the following list :

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

Electives	45.0 -49.0 Credits
Free electives	45.0 -49.0

Writing-Intensive Course Requirements

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Recommended Plan Of Study

BA Anthropology 4 YR UG Co-op Concentration

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Math elective	3.0-4.0
	Term Credits	14.0-15.0
Term 2		Credits
ANTH 110	The Human Past	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Math elective	3.0-4.0
	Term Credits	14.0-15.0
Term 3		Credits
ANTH 390	Seminar in Ethnography	3.0
ENGL 103	Analytical Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
SOC 260	Classical Social Theory	3.0
SOC 270	Theory of Applied and Community Sociology	3.0
	Term Credits	15.0
Term 4		Credits
ANTH 215	Anthropology of Gender	3.0
COM 150	Mass Media and Society	3.0
COM 220	Introduction to Communication	3.0
	Humanities/Fine Arts elective	3.0
	Lab Science elective	3.0
	Term Credits	15.0
Term 5		Credits
ANTH 370	Ethnographic Methods	3.0
COM 210	Theory and Models of Communication	3.0
SOC 250	Research Methods I	3.0
	Humanities/Fine Arts elective	3.0
	Lab Science elective	3.0
	Term Credits	15.0
Term 6		Credits
ANTH 310	Societies in Transition	3.0
ANTH 390	Seminar in Ethnography	3.0
LING 101	Introduction to Linguistics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	Anthropology program requirement (See degree requirements)	3.0
	Term Credits	15.0
Term 7		Credits
ANTH 330	Media Anthropology	3.0
	Free electives	12.0
	Term Credits	15.0
Term 8		Credits
ANTH 390	Seminar in Ethnography	3.0
	Anthropology program requirements (See degree requirements)	6.0
	Free elective	4.0

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

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Biological Sciences

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

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

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

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

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

Five-year option with co-op/internship experience: This option allows for the greatest amount of employment experience, with three distinct six-month periods

of employment included with studies. After the start of the sophomore year, students study or work through all terms, including summer.

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

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



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Biological Sciences

Bachelor of Science: 187.5 credits

Degree Requirements

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

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

Mathematics and statistics courses		Credits
BIO 440	Biometry	3.0
BIO 441	Data Analysis in the Biosciences	3.0
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
MATH 239	Mathematics for the Life Sciences	4.0
or		
MATH 111	Calculus A	3.0
MATH 112	Calculus B	3.0

MATH 113	Calculus C	3.0
MATH 123	Calculus III	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
Physical sciences courses		Credits
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 244	Organic Chemistry I Laboratory	3.0
CHEM 245	Organic Chemistry Laboratory II	3.0
PHYS 152	Physics for Life Sciences I	4.5
PHYS 153	Physics for Life Sciences II	4.5
Humanities and social science courses		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
COM 230	Techniques of Speaking	3.0
COM 310 WI	Technical Writing	3.0
PHIL 251	Ethics	3.0
UNIV 101	The Drexel Experience	2.0
Humanities and social sciences electives		6.0
Science, technology, and human affairs elective		3.0
Other courses		Credits
Free electives*		21.0

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

Writing-Intensive Course Requirements

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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

Term 1		Credits
BIO 121	Physiology of Nutrition	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
Term Credits		16.0
Term 2		Credits
BIO 122	Cells and Genetics	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 122	Calculus II	4.0
Term Credits		17.0
Term 3		Credits
BIO 123	Organismal Diversity and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
or		
MATH 239	Mathematics for the Life Sciences	4.0
Term Credits		16.5
Term 4		Credits
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques in Molecular Biology	2.5
CHEM 241	Organic Chemistry I	4.0
PHYS 152	Physics for Life Science I	4.5
	Free elective	3.0
Term Credits		17.0
Term 5		Credits
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques in Cell Biology	2.5
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
PHYS 153	Physics for Life Science II	4.5
Term Credits		17.0
Term 6		Credits
BIO 270	Developmental Biology	3.0
BIO 271	Developmental Biology Laboratory	2.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry Lab II	3.0
	Free elective	3.0
Term Credits		14.0
Term 7		Credits
BIO 201	Human Physiology I	4.0
BIO 311	Metabolism	4.0
BIO 440	Biometry	3.0

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



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Chemistry

About the Major

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

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

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

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



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Chemistry

Bachelor of Science Degree: 190.0 credits

Degree Requirements, B.S. Program

General education requirements		19.0 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
Foreign language courses		8.0

Chemistry requirements		82.5 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 352	Physical Chemistry and Applications II	4.0
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 423	Inorganic Chemistry Laboratory	4.0

CHEM 430	Analytical Chemistry I	3.0
CHEM 431 WI	Analytical Chemistry II	4.0

Biochemistry requirement

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
BIO 311	Metabolism	4.0

Biochemistry laboratory options:

BIO 306	Biochemistry Laboratory	2.0
BIO 406	Computational Biochemistry Laboratory	2.0

Computer/mathematics requirements

27.0 Credits

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

Physics requirements

13.50 Credits

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

Electives

33.0 Credits

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

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

Recommended Plan Of Study

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

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
PHYS 480	Special Topics in Physics: Computer Programming	3.0
UNIV 101	The Drexel Experience	1.0
CHEM 101	General Chemistry I	3.5
<i>Term Credits</i>		14.5
Term 2		Credits
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 111	Physics I	4.5
UNIV 101	The Drexel Experience	1.0
<i>Term Credits</i>		17.0
Term 3		Credits
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 112	Physics II	4.5
<i>Term Credits</i>		16.5
Term 4		Credits
CHEM 230	Quantitative Analysis	3.0
CHEM 231	Quantitative Analysis Lab	2.0
CHEM 241	Organic Chemistry I	4.0
MATH 200	Calculus IV	4.0
PHYS 211	Physics III	4.5
<i>Term Credits</i>		17.5
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
CHEM 251	Physical Chemistry I	3.0
MATH 201	Linear Algebra	4.0
	Free elective	3.0
<i>Term Credits</i>		17.0
Term 6		Credits
CHEC 352	Physical Chemistry and Applications II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 245	Organic Chemistry Lab II	3.0
CHEM 357	Physical Chemistry Lab I	2.5
MATH 210	Differential Equations	4.0
<i>Term Credits</i>		16.5
Term 7		Credits
CHEC 353	Physical Chemistry & Applications III	4.0
CHEM 358	Physical Chemistry Lab II	2.5
	Free electives	6.0
	Technical elective (200+ level, see degree requirements)	3.0
<i>Term Credits</i>		15.5
Term 8		Credits
CHEM 354	Physical Chemistry IV	3.0
CHEM 367	Chemical Information Retrieval	3.0

CHEM 421	Inorganic Chemistry I	3.0
CHEM 430	Analytical Chemistry I	3.0
	Language I	4.0
	Term Credits	16.0
Term 9		Credits
CHEM 420	Molecular Symmetry and Group Theory-Chemistry	3.0
CHEM 431	Analytical Chemistry II	4.0
	Free elective	3.0
	Language II	4.0
	Technical elective (200+ level, see degree requirements)	3.0
	Term Credits	17.0
Term 10		Credits
CHEM 346	Qualitative Organic Lab	5.5
CHEM 493	Senior Research Project	3.0
BIO 311	Metabolism	4.0
or		
BIO 404	Structure and Function of Biomolecules	4.0
	Liberal studies elective	3.0
	Term Credits	15.5
Term 11		Credits
CHEM 493	Senior Research Project	3.0
BIO 306	Biochemistry Laboratory	2.0
or		
BIO 311	Metabolism	4.0
or		
BIO 404	Structure and Function of Biomolecules	4.0
or		
BIO 406	Computational Biochemistry Lab	2.0
	Free electives	6.0
	Liberal studies elective	3.0
	Term Credits	14.0
Term 12		Credits
CHEM 422	Inorganic Chemistry II	3.0
CHEM 425	Inorganic Chemistry Lab	4.0
CHEM 493	Senior Research Project	3.0
	Free elective	3.0
	Term Credits	13.0
Total Credits (minimum)		190.0



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Communication

About the Curriculum

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

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

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

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

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

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

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



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Corporate and Public Relations

About the Concentration

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

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



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Corporate and Public Relations

Bachelor of Science Degree in Communication: 182.0 credits

Degree Requirements

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

One of the following Science sequences:

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

One of the following Math sequences:

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

One English course from each of the following sets:

ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	
<hr/>		
ENGL 203 WI	Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East	3.0
ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	
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Communication core requirements

Theory Sequence

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

Methods Sequence

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

Corporate and Public Relations concentration requirements

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

Other program requirements

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

One of the following History courses:

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

Two of the following Audio-Visual courses:

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

Additional Electives

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

Writing-Intensive Course Requirements

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

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



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Corporate and Public Relations

Bachelor of Arts Degree in Communication: 182.0 credits

Degree Requirements

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

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

Communication core requirements

Theory Sequence

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

Methods Sequence

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

Additional Core Requirements

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

Corporate and Public Relations concentration requirements

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

Other program requirements

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

One of the following History courses:

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

Two of the following Audio-Visual courses:

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

Additional Electives

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

Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BA Communication

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

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
COM 111	Introduction to Corporate Communication	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Term Credits	14.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Mathematics course	3.0-4.0
	Term Credits	14.0-15.0
Term 3		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
COM 280	Public Relations	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSY 101	General Psychology I	3.0
	Mathematics course	3.0-4.0
	Term Credits	15.0-16.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
PHIL 105	Critical Reasoning	3.0
	Free elective	3.0
	Science elective	3.0-4.0
	Sociology/Anthropology electives (SOC or ANTH)	6.0
	Term Credits	18.0-19.0
Term 5		Credits
COM 220	Introduction to Communication Research	3.0
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies In Communication	3.0
COM 260	Fundamentals of Journalism	3.0
	Science elective	3.0-4.0
	Term Credits	15.0-16.0
Term 6		Credits
COM 270	Business Communication	3.0
COM 281	Advanced Public Relations	3.0
SOC 260	Classical Social Theory	3.0
	Diversity studies elective	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	Term Credits	18.0
Term 7		Credits
SOC 250	Research Methods I	3.0
	Diversity studies elective	3.0
	International studies elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
	Term Credits	12.0
Term 8		Credits

<u>ORGB 300</u>	Organizational Behavior	4.0
<u>PHIL 305</u>	Communication Ethics	3.0
<u>SOC 364</u>	Computer-Assisted Data Analysis I	3.0
<u>LING 101</u>	Introduction to Linguistics	3.0
or		
<u>LING 102</u>	Language and Society	3.0
	Audio-Visual elective (See degree requirements for list)	3.0
	Term Credits	16.0
Term 9		Credits
<u>COM 330</u>	Professional Presentations	3.0
<u>HIST 220</u>	History of American Business	3.0
or		
<u>HIST 280</u>	History of Science I	3.0
or		
<u>HIST 281</u>	History of Science II	3.0
or		
<u>HIST 285</u>	Technology in Historical Perspective	3.0
	Audio-Visual elective (See degree requirements for list)	3.0
	Humanities/Fine Arts elective	3.0
	Introductory Marketing course	4.0
	Term Credits	16.0
Term 10		Credits
<u>ANTH 410</u>	Cultural Theory	3.0
<u>COM 380</u>	Special Topics in Communication Theory	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
	Term Credits	15.0
Term 11		Credits
<u>COM 491</u>	Senior Project in Communication I	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free electives	6.0
	Social and Behavioral sciences elective	3.0-4.0
	Term Credits	15.0-16.0
Term 12		Credits
<u>COM 492</u>	Senior Project in Communication II	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free electives	8.0
	Term Credits	14.0
	Total Credits (minimum)	182.0-187.0

Recommended Plan Of Study

BS Communication

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

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis	4.0
or		
MATH 121	Calculus I	4.0
Term Credits		14.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Math Analysis	4.0
or		
MATH 122	Calculus II	4.0
	History elective	3.0
Term Credits		14.0
Term 3		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
COM 280	Public Relations	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSY 101	General Psychology I	3.0
	History elective	3.0
Term Credits		15.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
PHIL 105	Critical Reasoning	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202	Romanticism to Modernism	3.0
	Fine arts elective	3.0
Term Credits		16.0
Term 5		Credits
COM 220	Introduction to Communication Research	3.0
COM 230	Techniques of Speaking	3.0
COM 260	Fundamentals of Journalism	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
ENGL 203	Post-Colonial Literature I	3.0
or		
ENGL 204	Post-Colonial Literature II	3.0
Term Credits		16.0
Term 6		Credits

COM 270	Business Communication	3.0
COM 281	Advanced Public Relations	3.0
ECON 201	Economics I	4.0
PSCI 100	Introduction to Political Science	4.0
SOC 260	Classical Social Theory	3.0
Term Credits		17.0
Term 7		Credits
COM 240	New Technologies in Communication	3.0
SOC 250	Research Methods I	3.0
	Free elective	5.0
	Philosophy (PHIL) elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
Term Credits		17.0
Term 8		Credits
ORGB 300	Organizational Behavior	4.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
	Audio-Visual elective (See degree requirements for list)	3.0
Term Credits		16.0
Term 9		Credits
COM 330	Professional Presentations	3.0
MKTG 301	Introduction to Marketing Management	4.0
	Audio-Visual elective (See degree requirements for list)	3.0
	History/Politics elective (See degree requirements for list)	3.0
	Humanities/Fine Arts elective	3.0
Term Credits		16.0
Term 10		Credits
ANTH 410	Cultural Theory	3.0
COM 380	Special Topics in Communication Theory	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
Term Credits		15.0
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free electives	8.0
Term Credits		14.0
Term 12		Credits
COM 492	Senior Project in Communication II	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free electives	6.0
Term Credits		12.0
Total Credits (minimum)		182.0



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Technical and Science Communication

About the Concentration

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

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



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Technical and Science Communication

Bachelor of Science Degree in Communication: 182.0 credits

Degree Requirements

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

One of the following Science sequences:

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

One of the following Math sequences:

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

One English course from each of the following sets:

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

Communication core requirements

Theory Sequence

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

Methods Sequence

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

Additional Core Requirements

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

Technical and Science concentration requirements

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

Other program requirements

HIST 280	History of Science I	3.0
or		
HIST 281	History of Science II	
or		
HIST 285	Technology in Historical Perspective	
INFO 101	Introduction to Information Technology	3.0
or		

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

Additional Electives

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

Writing-Intensive Course Requirements

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

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 Communication

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

Term 1		Credits
COM 111	Introduction to Corporate Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
	History elective	3.0
Term Credits		17.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 122	Calculus II	4.0
	History elective	3.0
	Philosophy (PHIL) elective	3.0
Term Credits		17.0
Term 3		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
CS 161	Introduction to Computing	3.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology I	3.0
Term Credits		16.0
Term 4		Credits
COM 210	Theory and Models of Communication	3.0
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202	Romanticism to Modernism	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 111	General Chemistry I	4.0
or		
PHYS 103	General Physics I	4.0
	Free elective	3.0
	Fine arts elective	3.0
Term Credits		16.0
Term 5		Credits
COM 220	Introduction to Communication Research	3.0
COM 230	Techniques of Speaking	3.0
ENGL 203	Post-Colonial Literature I	3.0
or		
ENGL 204	Post-Colonial Literature II	3.0
INFO 101	Introduction to Information Technology	3.0
or		
INFO 110	Human-Computer Interaction	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 112	General Chemistry II	4.0
or		

PHYS 104	General Physics II	4.0
<i>Term Credits</i>		16.0
Term 6		Credits
COM 310	Technical Communication	3.0
COM 340	Desktop Publishing	3.0
ECON 201	Economics I	4.0
SOC 260	Classical Social Theory	3.0
	Free elective	3.0
<i>Term Credits</i>		16.0
Term 7		Credits
COM 240	New Technologies in Communication	3.0
COM 330	Professional Presentations	3.0
COM 335	Writing for the World Wide Web	3.0
SOC 250	Research Methods I	3.0
	Communication (COM) elective of 300-level or higher	3.0
<i>Term Credits</i>		15.0
Term 8		Credits
COM 320	Science Writing	3.0
COM 375	Grant Writing	3.0
PHIL 305	Communication Ethics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
ENGL 300	Literature and Science	3.0
or		
PHIL 361	Philosophy of Science	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
<i>Term Credits</i>		18.0
Term 9		Credits
HIST 280	History of Science I	3.0
or		
HIST 281	History of Science II	3.0
or		
HIST 285	Technology in Historical Perspective	3.0
PSY 330	Cognitive Psychology	3.0
or		
PSY 337	The Psychology of Human-Computer Interaction	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free electives	6.0
<i>Term Credits</i>		15.0
Term 10		Credits
ANTH 410	Cultural Theory	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Free elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
<i>Term Credits</i>		12.0
Term 11		Credits
COM 491	Senior Project in Communication I	3.0
	Free electives	6.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
<i>Term Credits</i>		12.0
Term 12		Credits
COM 350	Message Design and Evaluation	3.0
COM 420	Technical Editing	3.0
COM 492	Senior Project in Communication II	3.0
	Free elective	3.0
<i>Term Credits</i>		12.0
Total Credits (minimum)		182.0



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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.



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Global Journalism

Bachelor of Arts Degree in Communication: 182.0 credits

Degree Requirements

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

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

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

Methods Sequence

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

Additional Core Requirements

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

Global Journalism concentration requirements **Credits**

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

Other program requirements

Select one course from the following sets of courses:

Linguistics

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

Political Science

PSCI 150	International Politics	4.0
PSCI 255	International Political Economy	4.0

International Studies

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

Audio-Visual

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

Additional Electives

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

Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BA Communication

5 YR UG Co-op Concentration /Global Journalism

Term 1		Credits
COM 111	Principles of Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Math elective	3.0-4.0
Term Credits		17.0-18.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course	4.0
	Math elective	3.0-4.0
Term Credits		14.0-15.0
Term 3		Credits
COM 210	Theory and Models of Communication	3.0
ENGL 103	Analytical Writing and Reading	3.0
SOC 260	Classical Social Theory	3.0
ANTH 101	Introduction to Cultural Diversity	3.0
or		
ANTH 110	The Human Past	3.0
	Foreign language course	3.0-4.0
Term Credits		15.0-16.0
Term 4		Credits
COM 220	Introduction to Communication Research	3.0
LING 101	Introduction to Linguistics	3.0
or		
LING 102	Language and Society	3.0
	Science elective	3.0
	Sociology/Anthropology electives (SOC or ANTH)	6.0
Term Credits		15.0
Term 5		Credits
COM 230	Techniques of Speaking	3.0
COM 240	New Technologies In Communication	3.0
COM 260	Fundamentals of Journalism	3.0
SOC 250	Research Methods I	3.0
	Science elective	3.0-4.0
Term Credits		15.0-16.0
Term 6		Credits
COM 300	On-line Journalism	3.0
COM 360	International Communication	3.0
	Audio-Visual elective (See degree requirements for list)	3.0
	Humanities/Fine Arts elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
Term Credits		15.0
Term 7		Credits
COM 280	Public Relations	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	Communication (COM) elective of 300-level or higher	3.0
	Diversity studies elective	3.0

Social and Behavioral sciences elective	3.0
Term Credits	15.0
Term 8	Credits
COM 315 Advanced Journalism	3.0
BLAW 340 International Business Law	4.0
or	
COM 361 International Public Relations	3.0
or	
IAS 359 Culture & Values	3.0
or	
SOC 340 Globalization	3.0
Communication (COM) electives of 300-level or higher	6.0
Social and Behavioral sciences elective	3.0
Term Credits	16.0
Term 9	Credits
COM 380 Special Topics in Communication Theory	3.0
PHIL 305 Communication Ethics	3.0
ANTH 312 Approaches to Intercultural Behavior	3.0
or	
COM 345 Intercultural Communication	3.0
Humanities/Fine Arts elective	3.0
International studies elective	3.0
Term Credits	15.0
Term 10	Credits
COM 365 Journalists, the Courts, and the Law	3.0
PSCI 150 International Politics	4.0
or	
PSCI 255 International Political Economics	4.0
Free electives	6.0
Humanities/Fine Arts elective	3.0
Term Credits	16.0
Term 11	Credits
COM 491 Senior Project in Communication I	3.0
Communication (COM) elective of 300-level or higher	3.0
Free electives	8.0
Term Credits	14.0
Term 12	Credits
ANTH 410 Cultural Theory	3.0
COM 390 Global Journalism	3.0
COM 492 Senior Project in Communication II	3.0
Free electives	6.0
Term Credits	15.0
Total Credits (minimum)	182.0-186.0



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Prospective Students

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Criminal Justice

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

About the Curriculum

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

Program Goals

The goals for the criminal justice program include the following:

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



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Criminal Justice

Bachelor of Science Degree: 182.0 credits

Degree Requirements

General requirements		68.0-69.5 Credits
UNIV 101	The Drexel Experience	2.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
CS 161	Introduction to Computing	3.0
COM 150	Mass Media and Society	3.0
PSCI 100	Introduction to Political Science	4.0
PSY 101	General Psychology	3.0
SOC 101	Introduction to Sociology	3.0
	Economics elective	4.0
	Fine Arts elective	3.0
	History electives	6.0
	Philosophy elective	3.0
One of the following math sequences:		
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
One of the following science sequences:		
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
BIO 117	Bioscience III: Molecular and Cellular Genetics	5.5
or		
CHEM 111	General Chemistry I	4.0
CHEM 112	General Chemistry II	4.0

One of the following English sequences:

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

Criminal Justice Core Requirements 30.0 Credits

Justice Sequence:

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

Methods Sequence:

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

Theory Sequence:

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

Writing/Communication (Students must take a minimum of two of the following courses): 6.0 Credits

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

Students select at least one, but no more than two, courses from the following: 3.0 - 6.0 Credits

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

Other program requirements: 20.0- 28.0 Credits

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

Students select six of the following Sociology/Political Science electives: 18.0 Credits

SOC 120	Sociology of the Family	3.0
SOC 220	Wealth and Power	3.0
SOC 240	Urban Sociology	3.0
SOC 380	Special Topics in Sociology	3.0
PSCI 329	Theories of Justice	3.0
PSCI 360	The Constitution and the Judicial Process	3.0
PSCI 363	Civil Liberties	3.0

Students select seven of the following Criminal Justice electives: 21.0 Credits

Forensic Science Concentration

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

Computer Crime Concentration

CJ 274	Sex, Violence, and Crime on the Internet	3.0
CJ 276	Computer Crime	3.0
CJ 377	Intellectual Property Theft in the Digital Age	3.0
INFO 480	Special Topics in Info Systems: Introduction to Information Systems Assurance	3.0

Crime and Procedures Concentration

CJ 275	Issues in Domestic Violence	3.0
CJ 277	Introduction to Correctional Practices	3.0
CJ 278	Introduction to Law Enforcement	3.0
CJ 279	Bio Terrorism	3.0
CJ 373	Environmental Crimes	3.0
CJ 374	Restorative Justice	3.0
CJ 375	Criminal Procedure	3.0
CJ 376	Sentencing and Punishment	3.0
BLAW 348	White Collar Crime	4.0
COM 365	Journalists: Courts and the Law	3.0

Electives

	Free electives	10.0
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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.



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Prospective Students

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English and Philosophy

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



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Prospective Students

Apply Online

English

Bachelor of Arts Degree : 182.0 credits

Degree Requirements

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

College requirements* **44.0 - 45.0
Credits**

Foreign language courses

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

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

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

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
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ANTH 210	Worldview: Science, Religion, Magic	3.0
COM 150	Mass Media and Society	3.0
HIST 161	Themes in World Civilization I	3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSY 101	General Psychology	3.0
PSY 120	Developmental Psychology	3.0
PSY 140	Approaches to Personality	3.0
SOC 101	Introduction to Sociology	3.0
SOC 115	Social Problems	3.0
SOC 120	Sociology of the Family	3.0

International studies: two (2) of the following courses

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

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

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

Major requirements **80.0 - 81.0 Credits**

Foundational and professional courses **50.0 Credits**

All of the following

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

Two (2) of the following

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

Three (3) of the following

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

Three (3) of the following

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

One (1) of the following

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

Literature Electives**6.0 Credits****Two (2) of the following**

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

Applied Writing and Communication**12.0 - 13.0
Credits****Four (4) of the following**

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

Science and Technology in the Humanities**12.0 Credits****Four (4) of the following**

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

Free electives**27.0 - 33.0
Credits**

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

Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BA English

5 YR UG Co-op Concentration

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

Science, Technology and Human Affairs elective	3.0
Term Credits	15.0
Term 8	Credits
COM 340 Desktop Publishing	3.0
ENGL 315 Shakespeare	3.0
WRIT 220 Creative Nonfiction Writing	3.0
Free electives	6.0
Term Credits	15.0
Term 9	Credits
WRIT 310 Literary Editing and Publishin	3.0
English major foundational courses (See degree requirements)	6.0
Free electives	6.0
Term Credits	15.0
Term 10	Credits
ENGL 300 Literature and Science	3.0
ENGL 323 Literature and Other Arts	3.0
ENGL 360 Literature and Society	3.0
Free electives	6.0
Term Credits	15.0
Term 11	Credits
HIST 281 History of Science II	3.0
PHIL 361 Philosophy of Science	3.0
ENGL 490 Seminar in English/American Literature	4.0
or	
ENGL 492 Seminar in World Literature	4.0
Free electives	6.0
Term Credits	16.0
Term 12	Credits
ENGL 499 Senior Project in English	4.0
WRIT 312 The Practice of Professional Writing	3.0
Free electives	9.0
Term Credits	16.0
Total Credits (minimum)	182.0-183.0



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Prospective Students

Apply Online

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



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Prospective Students

Apply Online

Major in History

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

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

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

Bachelor of Science

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Bachelor of Arts

[History \(BA\) Degree Requirements](#)

[History \(BA\) Sample Plan of Study](#)



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Prospective Students

Apply Online

History

Bachelor of Science Degree: 182.0 credits

Degree Requirements

General education requirements		63.0 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
Any 8-credit math sequence*		8.0
Any 8-credit science sequence**		8.0

*** Sample Math sequences: 8.0**

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

****Sample Science 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

Foundation requirements

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

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

Core History Requirements	49.0 Credits
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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 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	3.0
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
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* Only 200-level and above HIST courses will fulfill this this requirement.

Free Electives	40.0 Credits
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History

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

General education requirements	67.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Two 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 (ENVR) 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 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	3.0
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	32.0- 36.0.0 Credits



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BS History

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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes World Civilization I	3.0
MATH 101	Introduction to Analysis I	4.0
MUSC 130	Introduction to Music	3.0
PSCI 110	American Government I	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		18.0

Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
MATH 102	Introduction to Analysis II	4.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
Term Credits		17.0

Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSY 101	General Psychology I	3.0
	Free elective	3.0
Term Credits		16.0

Term 4		Credits
ENGL 202	Romanticism to Modernism	3.0
HIST 201	US History to 1815	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
	History of Latin America, Africa, or Asia	3.0
	Statistics elective	4.0
Term Credits		17.0

Term 5		Credits
ENGL 204	Post-Colonial Literature II	3.0
HIST 202	US History, 1815-1900	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
	Free elective	3.0
Term Credits		17.0

Term 6		Credits
ECON 201	Economics I	4.0
HIST 203	US History since 1900	3.0
PSCI 150	International Politics	4.0

ANTH 101	Introduction to Cultural Diversity	3.0
or		
ANTH 110	The Human Past	3.0
	Free elective	3.0
Term Credits		17.0
Term 7		Credits
ECON 202	Economics II	4.0
HIST 296	Research Methods in History	3.0
PHIL 105	Critical Reasoning	3.0
	Free electives	6.0
Term Credits		16.0
Term 8		Credits
HIST 301	The Study of History	3.0
	Free elective	3.0
	History electives (200-level and above)	6.0
	History of Europe course (200-level or higher)	3.0
Term Credits		15.0
Term 9		Credits
	Free electives	6.0
	History electives (200-level and above)	6.0
Term Credits		12.0
Term 10		Credits
	Free electives	6.0
	History electives (200-level and above)	6.0
Term Credits		12.0
Term 11		Credits
	Free electives	6.0
	History electives (200-level and above)	6.0
Term Credits		12.0
Term 12		Credits
HIST 492	Senior Seminar	3.0
	Free elective	4.0
	History electives (200-level and above)	6.0
Term Credits		13.0
Total Credits (minimum)		182.0



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5 YR UG Co-op Concentration

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes in World Civilization I	3.0
PSCI 110	American Government	4.0
UNIV 101	The Drexel Experience	1.0
	Mathematics course	3.0-4.0
Term Credits		14.0-15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (103-level or higher)	4.0
	Mathematics course	3.0-4.0
	Science elective	3.0-4.0
Term Credits		17.0-19.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
	Foreign language course (201-level or higher)	4.0
	Science elective	3.0-4.0
Term Credits		17.0-18.0
Term 4		Credits
HIST 201	US History to 1815	3.0
	Diversity studies elective	3.0
	History of Latin America, Africa, or Asia	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral sciences elective	3.0
Term Credits		15.0
Term 5		Credits
HIST 202	US History, 1815-1900	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral sciences elective	3.0
Term Credits		16.0
Term 6		Credits
HIST 203	US History since 1900	3.0
PSCI 210	American Government II	4.0
	Diversity studies elective	3.0
	Free elective	3.0
	International studies elective	3.0
Term Credits		16.0
Term 7		Credits
HIST 296	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
Term Credits	15.0
Term 8	Credits
HIST 301 The Study of History	3.0
Free elective	3.0
History electives (200-level and above)	6.0
History of Europe course (200-level or higher)	3.0
Humanities/Fine Arts elective	3.0
Term Credits	18.0
Term 9	Credits
Free electives	6.0
History electives (200-level and above)	6.0
Social and Behavioral sciences elective	3.0
Term Credits	15.0
Term 10	Credits
Free electives	9.0
History electives (200-level and above)	6.0
Term Credits	15.0
Term 11	Credits
Free electives	6.0
History electives (200-level and above)	6.0
Term Credits	12.0
Term 12	Credits
HIST 492 Senior Seminar in History	3.0
Free elective	3.0
History electives (200-level and above)	6.0
Term Credits	12.0
Total Credits (minimum)	182.0-186.0



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History & Political Science

Bachelor of Arts Degree: 181.0 credits

Degree Requirements

General education requirements	67.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Two 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 (ENVR) 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 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	3.0
PSCI 140 Introduction to Comparative Political Analysis	3.0

PSCI 150	International Politics	4.0
PSCI 210	American Government II	4.0
PSCI 220	Constitution and Judicial Process	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

History & Politics Electives		30.0 Credits
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

Free Electives	12.0 Credits
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History & Political Science

Bachelor of Science Degree: 181.0 credits

Degree Requirements

General education requirements		63.0 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
	Any 8-credit math sequence*	8.0
	Any 8-credit science sequence**	8.0

*** Sample Math sequences: 8.0**

MATH 101	Introduction to Math Analysis I	4.0
MATH 102	Introduction to Math Analysis II	4.0

or

MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0

****Sample Science 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

Foundation requirements

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

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

Core History & Political Science Requirements	73.0 Credits
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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 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	3.0
PSCI 140	Introduction to Comparative Political Analysis	3.0
PSCI 150	International Politics	4.0
PSCI 210	American Government II	4.0
PSCI 220	Constitution and Judicial Process	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

History & Politics Electives	30.0 Credits
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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

Free Electives	16.0 Credits
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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes World Civilization I	3.0
PSCI 110	American Government I	4.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Mathematics course	3.0-4.0
	Term Credits	18.0-19.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (103-level or higher)	4.0
	Mathematics course	3.0-4.0
	Term Credits	18.0-19.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	3.0
	Foreign language course (201-level or higher)	4.0
	Term Credits	17.0
Term 4		Credits
HIST 201	US History to 1815	3.0
	Diversity studies elective	3.0
	Humanities/Fine Arts elective	3.0
	Science elective	3.0-4.0
	Social and Behavioral sciences elective	3.0
	Term Credits	15.0-16.0
Term 5		Credits
HIST 202	US History, 1815-1900	3.0
PSCI 240	Comparative Government	3.0
	Humanities/Fine Arts elective	3.0
	Science elective	3.0-4.0
	Social and Behavioral sciences elective	3.0
	Term Credits	15.0-16.0
Term 6		Credits
HIST 203	US History since 1900	3.0
PSCI 210	American Government II	4.0
	Diversity studies elective	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	Term Credits	16.0
Term 7		Credits
HIST 296	Research Methods in History	3.0
PSCI 220	Constitutional and Judicial Process	3.0

PSCI 230	Research Methods in Political Science II	4.0
	History of Latin America, Africa, or Asia	3.0
	Social and Behavioral sciences elective	3.0
	Term Credits	16.0
Term 8		Credits
PSCI 250	American Foreign Policy	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	Humanities/Fine Arts elective	3.0
	Political Science elective (300-level and above PSCI)	3.0
	Term Credits	15.0
Term 9		Credits
HIST 301	The Study of History	3.0
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
	Term Credits	15.0
Term 10		Credits
	Free elective	3.0
	History elective (200-level and above)	3.0
	International studies elective	3.0
	Political Science elective (300-level and above PSCI)	3.0
	Term Credits	12.0
Term 11		Credits
	Free elective	3.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
	Social and Behavioral sciences elective	3.0
	Term Credits	12.0
Term 12		Credits
HIST 492	Senior Seminar	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
	Term Credits	12.0
Total Credits (minimum)		181.0-185.0



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BS History & Political Science Dual Major
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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
HIST 161	Themes World Civilization I	3.0
MATH 101	Introduction to Analysis I	4.0
PSCI 110	American Government I	4.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		19.0

Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
HIST 162	Themes World Civilization II	3.0
MATH 102	Introduction to Analysis II	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		18.0

Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
HIST 163	Themes World Civilization III	3.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	3.0
PSY 101	General Psychology I	3.0
Term Credits		16.0

Term 4		Credits
ENGL 202	Romanticism to Modernism	3.0
HIST 201	US History to 1815	3.0
MUSC 130	Introduction to Music	3.0
SOC 101	Introduction to Sociology	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
Term Credits		16.0

Term 5		Credits
PSCI 240	Comparative Government	3.0
ENGL 204	Post-Colonial Literature II	3.0
HIST 202	US History, 1815-1900	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
	Statistics elective	4.0
Term Credits		17.0

Term 6		Credits
ECON 201	Economics I	4.0
HIST 203	US History since 1900	3.0
PSCI 210	American Government II	4.0

ANTH 101	Introduction to Cultural Diversity	3.0
or		
ANTH 110	Hum Past: Anth/Prehis Arc	3.0
<i>Term Credits</i>		14.0
Term 7		Credits
HIST 296	Research Methods in History	3.0
PHIL 105	Critical Reasoning	3.0
PSCI 220	Constitutional and Judicial Process	3.0
PSCI 230	Research Methods in Political Science II	4.0
	History of Latin America, Africa, or Asia	3.0
<i>Term Credits</i>		16.0
Term 8		Credits
ECON 202	Economics II	4.0
PSCI 250	American Foreign Policy	3.0
	History elective (200-level and above)	3.0
	History of Europe course (200-level or higher)	3.0
	Political Science elective (300-level and above PSCI)	3.0
<i>Term Credits</i>		16.0
Term 9		Credits
HIST 301	The Study of History	3.0
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
<i>Term Credits</i>		12.0
Term 10		Credits
	Free electives	6.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
<i>Term Credits</i>		12.0
Term 11		Credits
	Free electives	6.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
<i>Term Credits</i>		12.0
Term 12		Credits
HIST 492	Senior Seminar	3.0
	Free elective	4.0
	History elective (200-level and above)	3.0
	Political Science elective (300-level and above PSCI)	3.0
<i>Term Credits</i>		13.0
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International Area Studies

The [Department of International Area Studies](#) offers a B.A. in international area studies and minors in international area studies and in seven languages: Chinese, French, German, Italian, Japanese, Russian, and Spanish. Courses in an eighth language—Arabic—are currently offered at the introductory level, and the Modern Language program plans to develop advanced-level Arabic courses in the near future.

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

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

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

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

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

Writing-Intensive Course Requirements

In order to graduate, all students beginning with the entering class of 2002/01 (fall, 2002) must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any

discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid “clustering” these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

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



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Department of International Area Studies

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

The Bachelor of Arts (B.A.)

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

Students select one concentration:

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

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



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Prospective Students

Apply Online

International Area Studies

Global Science, Technology and Society Concentration

Bachelor of Arts Degree: 182.0 credits

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

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

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

Area-specific courses:	6.0 Credits
Students select at least two courses from one of the following areas:	
Europe	

HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0
HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

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

Latin America

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

East/South Asia

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

Global Science, Technology and Society Requirements 39.0 Credits

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

Global Science, Technology and Society Distribution Requirements 33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

ANTH 210	Worldview: Science, Religion, Magic	3.0
BIO 264	Ethnobotany	3.0

ECON 301	Microeconomics	4.0
ECON 321	Macroeconomics	4.0
ECON 351	Resource and Environmental Economics	4.0
ENGL 302	Environmental Literature	3.0
HIST 220	History of American Business	3.0
HIST 223	Women and Work in America	3.0
HIST 281	History of Science II	3.0
HIST 292	Technology in American Life	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 446	Perspectives on World Nutrition	3.0
PHIL 321	Biomedical Ethics	3.0
PHIL 341	Philosophy of the Environment	3.0
PHIL 351	Philosophy of Technology	3.0
PHIL 361	Philosophy of Science	3.0
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
SOC 225	Technology and Aging in Industrial Societies	3.0
SOC 260 WI	Classical Social Theory	3.0
SOC 330	Developing Nations and the International Division of Labor	3.0
SOC 435	Seminar: Organization of American States	3.0
SOC 380	Special Topics in Sociology: Environmental Justice	3.0
WRIT 400	Writing in Cyberspace	4.0
Electives		11.0-23.0 Credits

Writing-Intensive Course Requirements

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

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



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Recommended Plan Of Study

BA International Area Studies

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

Term 1		Credits
UNIV 101	The Drexel Experience	1.0
ENGL 101	Expository Writing and Reading	3.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
	Social science elective	3.0
Term Credits		13.0-15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Language requirement	3.0-4.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		16.0-19.0
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
PHIL 105	Critical Reasoning	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 4		Credits
ECON 202	Economics II	4.0
HIST 280	History of Science I	3.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 5		Credits
COM 240	New Technologies in Communication	3.0
	Area-specific course (See degree requirements)	3.0
	Global Science, Technology & Society distribution course	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 6		Credits
HIST 285	Technology in Historical Perspective	3.0
SOC 335	Sociology of Health	3.0
	Global Science, Technology & Society distribution course	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 7		Credits
ENGL 300	Literature and Science	3.0
	Area-specific course (See degree requirements)	3.0
	Global Science, Technology & Society distribution courses	6.0

	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 8		Credits
ENGL 204	Post-Colonial Literature II	3.0
HIST 221	Labor in the Age of Science	3.0
SOC 345	Sociology of the Environment	3.0
	Global Science, Technology & Society distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 9		Credits
HIST 286	Exploration in Technology and Gender	3.0
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
	Global Science, Technology & Society distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 10		Credits
HIST 290	Technology and the World Community	3.0
WMST 240	Cross-Cultural Women's Studies	3.0
	Global Science, Technology & Society distribution courses	6.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 11		Credits
IAS 359	Culture & Values	3.0
PSCI 371	Science, Technology, & Public Policy	3.0
	Free elective	4.0
	Global Science, Technology & Society distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	16.0-17.0
Term 12		Credits
	Free electives	6.0
	Global Science, Technology & Society distribution courses	6.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
	Total Credits (minimum)	182.0-197.0



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Prospective Students

Apply Online

International Area Studies

International Business and Economics Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements

49.0-52.0 Credits

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

IAS Core Curriculum Requirements

12.0 Credits

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

Language Requirements

21.0 - 33.0 Credits

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

Area-specific courses:

6.0 Credits

Students select at least two courses from one of the following areas:

Europe

HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0
HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

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

Latin America

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

East/South Asia

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

International Business and Economics Requirements

27.0 Credits

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

International Business and Economics Distribution Requirements

33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

ANTH 312	Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0

COM 360	International Communication	3.0
COM 361	International Public Relations	3.0
ECON 301	Microeconomics	4.0
ECON 321	Macroeconomics	4.0
ECON 326	Economic Ideas	4.0
ECON 346	Economics of Consumption	3.0
ENGL 325	Topics in World Literature	3.0
HIST 290	Technology and World Community	3.0
INTB 336	International Money and Finance	3.0
INTB 338 WI	Regional Studies in International Business and Economic Policy	3.0
PHIL 331	Philosophy and Public Policy	3.0
PSCI 255	International Political Economy	4.0
PSCI 340	Politics of Developing Nations	3.0.
PSCI 357	European Union	3.0.
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
PSCI 472	Special Studies in Political Science: International Organizations	3.0
MKTG 301 WI	Introduction to Marketing Management	5.0
MKTG 322	Advertising and Advertising Management	4.0
MKTG 351	Marketing for Non-Profit Organizations	4.0
MKTG 357 WI	International Marketing	4.0
SOC 220	Wealth and Power	3.0
SOC 310	Political Sociology	3.0
SOC 340	Globalization	3.0
SOC 435	Seminar: Organization of American States	3.0
Electives		10.0-22.0 Credits

Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BA International Area Studies

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

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		14.0-16.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Language requirement	3.0-4.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		16.0-19.0
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
PHIL 105	Critical Reasoning	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 4		Credits
ECON 202	Economics II	4.0
HIST 280	History of Science I	3.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 5		Credits
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	3.0
	Area-specific course (See degree requirements)	3.0
	History & Politics or Culture & Communication elective	3.0
	International Business and Economics distribution course	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 6		Credits
ENGL 360	Literature and Society	3.0
	Area-specific course (See degree requirements)	3.0
	History & Politics or Culture & Communication elective	3.0
	International Business and Economics distribution course	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 7		Credits
ECON 342	Economic Development	4.0

PHIL 301	Business Ethics	3.0
	International Business and Economics distribution courses	6.0
	Language requirement	3.0-4.0
	Term Credits	16.0-17.0
Term 8		Credits
ECON 344	Comparative Economic Systems	4.0
ENGL 204	Post-Colonial Literature II	3.0
INTB 334	International Trade	4.0
	International Business and Economics distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	17.0-18.0
Term 9		Credits
BLAW 340	International Business Law	4.0
IAS 360	Civilization	3.0
	International Business and Economics distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	13.0-14.0
Term 10		Credits
INTB 332	Multinational Corporations	4.0
WMST 240	Cross-Cultural Women's Studies	3.0
	International Business and Economics distribution courses	6.0
	Language requirement	3.0-4.0
	Term Credits	16.0-17.0
Term 11		Credits
IAS 359	Culture & Values	3.0
PSCI 371	Science, Technology, & Public Policy	3.0
	Free elective	3.0-4.0
	International Business and Economics distribution course	3.0
	Language requirement	3.0-4.0
	Term Credits	15.0-17.0
Term 12		Credits
	Free electives	6.0
	International Business and Economics distribution courses	6.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
	Total Credits (minimum)	184.0-200.0



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Prospective Students

Apply Online

International Area Studies Justice and Human Rights Concentration

Bachelor of Arts Degree: 182.0 credits

General Requirements

**49.0-52.0
Credits**

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

IAS Core Curriculum Requirements

12.0 Credits

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

Language Requirements

**21.0 - 33.0
Credits**

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

Area-specific courses:

6.0 Credits

Students select at least two courses from one of the following areas:

Europe

HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0
HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0

Middle East/Africa

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

Latin America

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

East/South Asia

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

Justice and Human Rights Requirements 31.0 Credits

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

*Justice and Human rights related topics.

Justice and Human Rights Distribution Requirements 33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

AFAS 295	Special Topics in Africana Studies*	3.0
ANTH 312	Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
COM 360	International Communication	3.0
COM 380	Special Topics in Communication Theory: International Negotiation	3.0
ECON 321	Macroeconomics	4.0
ECON 326	Economic Ideas	4.0
ECON 342	Economic Development	4.0
ENGL 360	Literature and Society*	3.0
HIST 290	Technology and World Community	3.0
IAS 399	IAS Independent Study: Nonviolent Conflict Resolution	3.0
PHIL 331	Philosophy and Public Policy	3.0
PHIL 341	Philosophy of the Environment	3.0
PHIL 391	Philosophy of Religion	3.0
PSCI 240	Comparative Government	3.0
PSCI 255	International Political Economy	4.0
PSCI 340	Politics of Developing Nations	3.0
PSCI 357	European Union	3.0
PSCI 365	Politics, Law and Justice	3.0
PSCI 367	International Law	3.0
SOC 220	Wealth and Power	3.0
SOC 310	Political Sociology	3.0
SOC 435	Seminar: Organization of American States	3.0
SOC 380	Special Topics in Sociology: Social Movements	3.0
SOC 380	Special Topics in Sociology: Environmental Justice	3.0
WMST 280	Special Topics in Women's Studies*	3.0

*Justice and Human rights related topics.

Electives	12.0-24.0 Credits
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Writing-Intensive Course Requirements

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

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



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Recommended Plan Of Study

BA International Area Studies

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

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		14.0-16.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Language requirement	3.0-4.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		16.0-19.0
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
PHIL 105	Critical Reasoning	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 4		Credits
ECON 202	Economics II	4.0
SOC 260	Classical Social Theory	3.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 5		Credits
PHIL 241	Social and Political Philosophy	3.0
	Area-specific course (See degree requirements)	3.0
	History & Politics or Culture & Communication elective	3.0
	Justice/Human Rights distribution course (See requirements)	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 6		Credits
ENGL 360	Literature and Society	3.0
PSCI 472	Special Studies in Political Science: Human Rights	3.0
	History & Politics or Culture & Communication elective	3.0
	Justice/Human Rights distribution course (See requirements)	3.0
	Language requirement	3.0-4.0
Term Credits		15.0-16.0
Term 7		Credits
PSCI 329	Theories of Justice	3.0
	Area-specific course (See degree requirements)	3.0
	Justice/Human Rights distribution courses (See requirements)	6.0

	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 8		Credits
ENGL 204	Post-Colonial Literature II	3.0
PSCI 120	History of Political Thought	4.0
ANTH 310	Societies in Transition	3.0
or		
SOC 330	Developing Nations	3.0
	Justice/Human Rights distribution course (See requirements)	3.0
	Language requirement	3.0-4.0
	Term Credits	16.0-17.0
Term 9		Credits
ANTH 410	Cultural Theory	3.0
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
	Justice/Human Rights distribution course (See requirements)	3.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 10		Credits
PSCI 472	Special Studies in Political Science: Ethics and International Affairs	3.0
WMST 240	Cross-Cultural Women's Studies	3.0
	Justice/Human Rights distribution courses (See requirements)	6.0
	Language requirement	3.0-4.0
	Term Credits	15.0-16.0
Term 11		Credits
IAS 359	Culture & Values	3.0
	Free elective	3.0-4.0
	Justice/Human Rights distribution course (See requirements)	3.0
	Language requirement	3.0-4.0
	Term Credits	12.0-14.0
Term 12		Credits
	Free electives	8.0
	Justice/Human Rights distribution courses (See requirements)	6.0
	Language requirement	3.0-4.0
	Term Credits	17.0-18.0
	Total Credits (minimum)	182.0-198.0



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Prospective Students

Apply Online

International Area Studies

Literature, Culture and the Arts Concentration

Bachelor of Arts Degree: 182.0 credits

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

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

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

Area-specific courses:	6.0 Credits
Students select at least two courses from one of the following areas:	
Europe	

HIST 241	Modern France	3.0
HIST 242	Modern Italy	3.0
HIST 243	Germany and the World of Adolf Hitler	3.0
HIST 244	20th-Century Russia and the USSR	3.0
HIST 247	Modern England	3.0
HIST 251	Fascism	3.0
PSCI 357	The European Union	3.0
<i>Middle East/Africa</i>		
AFAS 101	Introduction to Africana Studies	3.0
AFAS 201	Cross-Currents in Africana Studies	3.0
AFAS 295	Special Topics in Africana Studies	3.0
PSCI 245	Introduction to 20th Century Middle East	3.0
PSCI 345	Comparative Politics of the Middle East	3.0
<i>Latin America</i>		
HIST 270 W	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
<i>East/South Asia</i>		
ANTH 212	Topics in World Ethnography	3.0
ARTH 301	Asian Art and Culture	3.0
ARTH 302	Art of India	3.0
ARTH 303	Art of China	3.0
ARTH 304	Art of Japan	3.0
HIST 263	The World and China	3.0
HIST 264	East Asia in Modern Times	3.0
HIST 238	The Vietnam War	3.0

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

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

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

*As appropriate to the major..

Electives	11.0-23.0 Credits
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Writing-Intensive Course Requirements

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BA International Area Studies

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

Term 1		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		13.0-15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
LING 102	Language and Society	3.0
UNIV 101	The Drexel Experience	1.0
	Language requirement	3.0-4.0
	Math elective	3.0-4.0
	Science elective	3.0-4.0
Term Credits		16.0-19.0
Term 3		Credits
ECON 201	Economics I	4.0
ENGL 103	Analytical Writing and Reading	3.0
IAS 399	Independent Study IAS: Global Research Methods	3.0
PHIL 105	Critical Reasoning	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 4		Credits
ANTH 212	Topics in World Ethnography	3.0
ECON 202	Economics II	4.0
	Ethics elective	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
Term Credits		16.0-17.0
Term 5		Credits
MUSC 331	World Musics	3.0
	Area-specific course (See degree requirements)	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
Term Credits		15.0-16.0
Term 6		Credits
ENGL 360	Literature and Society	3.0
PHIL 231	Aesthetics	3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
or		
ARTH 102	History of Art II: Renaissance	3.0
or		
ARTH 103	History of Art III: Early Mode	3.0
	History & Politics or Culture & Communication elective	3.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
Term Credits		18.0-19.0

Term 7		Credits
ANTH 312	Approaches to Intercultural Behavior	3.0
or		
COM 345	Intercultural Communication	3.0
	Area-specific course (See degree requirements)	3.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution courses (See requirements)	6.0
Term Credits		15.0-16.0
Term 8		Credits
ANTH 410	Cultural Theory	3.0
ENGL 204	Post-Colonial Literature II	3.0
ENGL 360	Literature and Society	3.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
Term Credits		15.0-16.0
Term 9		Credits
ENGL 202	Romanticism to Modernism	3.0
IAS 360	Civilization	3.0
PHIL 335	Global Ethical Issues	3.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
Term Credits		15.0-16.0
Term 10		Credits
WMST 240	Cross-Cultural Women's Studies	3.0
	Free elective	3.0-4.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution courses (See requirements)	6.0
Term Credits		15.0-17.0
Term 11		Credits
IAS 359	Culture & Values	3.0
	Free elective	3.0-4.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution course (See requirements)	3.0
Term Credits		12.0-14.0
Term 12		Credits
	Free electives	7.0
	Language requirement	3.0-4.0
	Lit, Culture & Arts distribution courses (See requirements)	6.0
Term Credits		16.0-17.0
Total Credits (minimum)		182.0-199.0



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Prospective Students

Apply Online

Environmental Science

Bachelor of Science Degree: 188.5 credits

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



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Prospective Students

Apply Online

Environmental Science

Bachelor of Science Degree: 189.5 credits

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

Required courses		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 221	Microbiology	5.0
or		
ENVR 324	Microbial Ecology	4.5
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
CHEM 230	Quantitative Analysis	4.0
CHEM 231 WI	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry I Laboratory	3.0
ENVR 272	Physical Geology	4.0
ENVR 260	Environmental Science and Society I	3.0
ENVR 261	Environmental Science and Society I Lab	1.0
ENVR 262 WI	Environmental Science and Society II	3.0
ENVR 263	Environmental Science and Society II Lab	1.0
ENVR 284 WI	Ecology I: Physiological and Population Ecology	5.0
ENVR 286 WI	Ecology II: Communities and Ecosystems	5.0
ENVR 310	Environmental Data Analysis	3.0
ENVR 316	Sanitary Microbiology	3.0
ENVR 342 WI	Bioclimatology	3.0
ENVR 360	Environmental Movements in America	3.0
ENVR 460	Evolution	3.0
BIO 440	Biometry	3.0

MATH 121	Calculus I	4.0
MATH 122	Calculus II*	4.0
MATH 123	Calculus III	4.0
PHEV 145	Weather 1: Climate and Global Change	4.0
ENVR 441	Issues in Global Change I: Seminar	2.0
ENVR 442	Issues in Global Change II: Research	2.0
PHYS 152	Physics for Life Sciences I	4.5
PHYS 153	Physics for Life Sciences II	4.5

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

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

Biodiversity and conservation

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

Ecology

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

Environmental education

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

Environmental policy

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

Environmental technology

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

(General) Environmental Science

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

Marine science

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

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

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

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

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

Writing-Intensive Course Requirements

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BS Environmental Science
 4 YR UG No Co-op Concentration

Term 1		Credits
BIO 121	Physiology of Nutrition	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
Term Credits		16.0
Term 2		Credits
BIO 122	Cells and Genetics	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 122	Calculus II	4.0
Term Credits		17.0
Term 3		Credits
BIO 123	Organismal Diversity and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
or		
MATH 239	Mathematics for the Life Sciences	4.0
Term Credits		16.5
Term 4		Credits
CHEM 241	Organic Chemistry I	4.0
ENVR 260	Environmental Science and Society I	3.0
ENVR 261	Environmental Science and Society Lab	1.0
ENVR 284	Ecology I: Physiological and Population Ecology	5.0
BIO 221	Microbiology	5.0
or		
ENVR 324	Microbial Ecology	4.5
	Free elective	3.0
Term Credits		21.0
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry Lab I	3.0
ENVR 263	Environmental Science and Society II Lab	1.0
ENVR 286	Ecology II: Communities and Ecosystems	5.0
PHEV 145	Weather I: Climate and Global Change	4.0
Term Credits		17.0
Term 6		Credits
CHEM 230	Quantitative Analysis	3.0
CHEM 231	Quantitative Analysis Lab	2.0
	Free elective	3.0
	Environmental Science elective (See degree requirements)	3.0

Humanities elective	3.0
Term Credits	14.0
Term 7	Credits
ENVR 272 Physical Geology	4.0
ENVR 360 Environmental Movements in America	3.0
PHYS 152 Physics for Life Science I	4.5
Environmental Science elective (See degree requirements)	3.0
Term Credits	14.5
Term 8	Credits
ECON 201 Economics I	4.0
ENVR 460 Evolution	3.0
PHYS 153 Physics for Life Science II	4.5
Environmental Science elective (See degree requirements)	3.0
Term Credits	14.5
Term 9	Credits
COM 310 Technical Communication	3.0
ECON 202 Economics II	4.0
Free electives	6.0
Environmental Science elective (See degree requirements)	3.0
Term Credits	16.0
Term 10	Credits
BIO 440 Biometry	3.0
ENVR 316 Sanitary Microbiology	3.0
Free electives	6.0
Environmental Science elective (See degree requirements)	3.0
Term Credits	15.0
Term 11	Credits
BIO 441 Data Analysis in the Biosciences	3.0
ENVR 342 Bioclimatology	3.0
ENVR 441 Issues in Global Change I: Seminar	2.0
Free elective	3.0
Environmental Science elective (See degree requirements)	3.0
Term Credits	14.0
Term 12	Credits
ENVR 442 Issues in Global Change II: Research	2.0
Free electives	9.0
Environmental Science elective (See degree requirements)	3.0
Term Credits	14.0
Total Credits (minimum)	189.5



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Prospective Students

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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 Ph. D. 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.



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Prospective Students

Apply Online

Mathematics

Bachelor of Science Degree: 180.0 credits

Degree Requirements

General education requirements		Credits
CS 131	Computer Programming A	3.0
CS 132	Computer Programming B	3.0
CS 133	Computer Programming C	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

Writing-Intensive Course Requirements

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

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



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Recommended Plan Of Study

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

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
MATH 220	Introduction to Mathematical Reasoning	3.0
UNIV 101	The Drexel Experience	1.0
<i>Term Credits</i>		15.0
Term 2		Credits
CHEM 101	General Chemistry I	3.5
CS 131	Computer Programming A	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
<i>Term Credits</i>		14.5
Term 3		Credits
CS 132	Computer Programming B	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
	Social science elective	3.0
<i>Term Credits</i>		17.5
Term 4		Credits
COM 230	Techniques of Speaking	3.0
CS 133	Computer Programming C	3.0
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
	Social science elective	3.0
<i>Term Credits</i>		17.0
Term 5		Credits
MATH 210	Differential Equations	4.0
MATH 221	Discrete Mathematics	3.0
MATH 321	Vector Calculus	4.0
	Humanities elective	3.0
	Social science elective	3.0
<i>Term Credits</i>		17.0
Term 6		Credits
MATH 311	Probability and Statistics I	4.0
MATH 331	Abstract Algebra I	4.0
	Humanities elective	3.0
	Social science elective	3.0
<i>Term Credits</i>		14.0
Term 7		Credits
MATH 312	Probability and Statistics II	4.0
MATH 332	Abstract Algebra II	3.0
	Free elective	3.0
	Humanities elective	3.0
	Social science elective	3.0

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



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Nutrition and Food Science

About the Degree

The B.S. in Nutrition and Food Science allows students to specialize in the area of Nutrition or Food Science. Both programs require 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 developmental 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). 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, business, and economics.
- An accredited, supervised practice program, also called a dietetic internship, at a health-care facility, community agency or foodservice corporation. The internship provides over 900 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 B.S. 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, 75% of students who apply to internships, and 75% who apply to grad 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.

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 in their junior year 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.

For more information, visit the College's [Nutrition, Food Science and Food Safety](#) web page.



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Nutrition and Food Science

Degree Requirements

Bachelor of Science: 180.5 credits

Required Nutrition and Foods courses		Credits
NFS 154	Foods: Composition, Interactions and Formulations	4.0
NFS 200 WI	Nutrition I: Principles of Nutrition	4.0
NFS 203	Nutrition II: Nutrition in the Life Cycle	4.0
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 270	Microbial Food Safety and Sanitation	4.0
NFS 275	Quantity Foods I	3.0
NFS 276	Quantity Foods II	3.0
NFS 345 WI	Foods and Nutrition of World Cultures	3.0
NFS 350 WI	Experimental Foods: Product Development	3.0
NFS 365 WI	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 371	Institutional Organization and Administration	3.0
NFS 373	Food Service Planning and Equipment Selection	3.0
NFS 391 WI	Community Nutrition	4.0
NFS 415	Advanced Nutrition I: Macronutrients	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
NFS 431	Nutrition Counseling	4.0
NFS 443	Therapeutic Nutrition I	3.0
NFS 444 WI	Therapeutic Nutrition II	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 480	Special Topics in Nutrition and Food Science: Medical Nutrition Therapy III	3.0
NFS 494	Senior Project I	2.0
NFS 495	Senior Project II	2.0
NFS 496	Senior Project III	2.0

Biological sciences courses

BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 153	Anatomy and Physiology I	4.5

Chemistry courses

CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
NFS 400	Nutritional Chemistry	3.0
NFS 404 WI	Nutritional Chemistry Laboratory	1.0

Mathematics, Statistics/Computer courses

MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
PSY 364	Computer-Assisted Data Analysis I	3.0

Communications courses

COM 230	Techniques of Speaking	3.0
COM 345	Intercultural Communication	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0

Humanities and Social Sciences

ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	
or		
SOC 101	Introduction to Sociology	3.0
ECON 201	Economics I	4.0
ECON 202	Economics II	4.0
PSY 101	General Psychology	3.0
PSY 320	Educational Psychology	3.0
WI		
PSY 342	Counseling Psychology	3.0
UNIV 101	The Drexel Experience	2.0

Business courses

HRMT 323	Principles of Human Resource Administration	4.0
ORGB 300	Organizational Behavior	4.0
WI		

Other courses

	Free electives	15.0
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Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BS Nutrition and Food Science, 4-year Co-Op
 4 YR UG Co-op Concentration

Term 1		Credits
BIO 121	Physiology of Nutrition	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		16.0
Term 2		Credits
BIO 122	Cells and Genetics	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Math Analysis II	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		17.0
Term 3		Credits
BIO 123	Organismal Diversity and Ecology	4.5
CHEM 103	General Chemistry III	5.0
ENGL 103	Analytical Writing and Reading	3.0
NFS 154	Foods: Composition, Interactions and Formulations	4.0
Term Credits		16.5
Term 4		Credits
BIO 153	Anatomy and Physiology I	4.5
ECON 201	Economics I	4.0
NFS 200	Nutrition I: Principles of Nutrition	4.0
NFS 270	Microbial Food Safety and Sanitation	4.0
Term Credits		16.5
Term 5		Credits
BIO 154	Anatomy and Physiology II	4.5
ECON 202	Economics II	4.0
NFS 203	Nutrition II: Nutrition in the Lifecycle	4.0
NFS 275	Quantity Foods I	3.0
Term Credits		15.5
Term 6		Credits
NFS 265	Professional Issues in Nutrition and Foods	3.0
NFS 276	Quantity Foods II	3.0
NFS 400	Nutritional Chemistry	3.0
NFS 404	Nutritional Chemistry Laboratory	1.0
PSY 101	General Psychology I	3.0
	Free elective	3.0
Term Credits		16.0
Term 7		Credits
COM 230	Techniques of Speaking	3.0
ORGB 300	Organizational Behavior	4.0
ANTH 101	Introduction to Cultural Diversity	3.0
or		
SOC 101	Introduction to Sociology	3.0
	Free elective	3.0

Term Credits		13.0
Term 8		Credits
COM 345	Intercultural Communication	3.0
NFS 350	Experimental Foods: Product Development	3.0
NFS 415	Advanced Nutrition I: Macronutrition	4.0
PSY 320	Educational Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
Term Credits		16.0
Term 9		Credits
HRMT 323	Principles of Human Resource Administration	4.0
NFS 365	Nutrition Laboratory: Food and Nutrient Analysis	4.0
NFS 416	Advanced Nutrition II: Micronutrients	4.0
PSY 342	Counseling Psychology	3.0
Term Credits		15.0
Term 10		Credits
NFS 391	Community Nutrition	4.0
NFS 443	Therapeutic Nutrition I	3.0
NFS 475	Advanced Seminar in the Dietetics Profession	3.0
NFS 494	Senior Project I	2.0
	Free elective	3.0
Term Credits		15.0
Term 11		Credits
NFS 371	Institutional Organization and Administration	3.0
NFS 431	Nutrition Counseling	4.0
NFS 444	Therapeutic Nutrition II	3.0
NFS 495	Senior Project II	2.0
	Free elective	3.0
Term Credits		15.0
Term 12		Credits
NFS 345	Foods and Nutrition of World Cultures	3.0
NFS 373	Food Service Planning and Equipment	3.0
NFS 480	Special Studies in Nutrition & Foods: Medical Nutrition Therapy III	3.0
NFS 496	Senior Project III	2.0
	Free elective	3.0
Term Credits		14.0
Total Credits (minimum)		185.5



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Prospective Students

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Physics

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

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

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

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



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Prospective Students

Apply Online

Physics

Bachelor of Science Degree: 185.0 credits

Degree Requirements

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

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

Mathematics/computer science requirements

CS 170	Computer Programming I	3.0
CS 171	Computer Programming I	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	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 223 WI	Modern Physics Laboratory	3.0
PHYS 226 WI	Instrumentation for Scientists I	3.0
PHYS 305	Computational Physics II	3.0
PHYS 311	Classical Mechanics I	4.0
PHYS 312	Classical Mechanics II	4.0
PHYS 217	Thermodynamics	4.0
PHYS 317	Statistical Mechanics	3.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 322	Electromagnetic Fields II	4.0
PHYS 324	Topics in Mathematical Physics	3.0
PHYS 326	Quantum Mechanics I	4.0
PHYS 327	Quantum Mechanics II	4.0
PHYS 328	Advanced Laboratory	3.0
PHYS 428	Quantum Mechanics III	4.0
PHYS 491	Senior Research I	3.0
PHYS 492	Senior Research II	3.0
PHYS 493 WI	Senior Research III	3.0

Physics lab requirements**3.0 - 4.0**

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

Topical course requirements**12.0**

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

Topical courses

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

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

Writing-Intensive Course Requirements

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

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



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BS Physics

5 YR UG Co-op Concentration

Term 1		Credits
CS 171	Computer Programming I	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
PHYS 113	Contemporary Physics I	5.0
UNIV 101	The Drexel Experience	1.0
Term Credits		16.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
PHYS 114	Contemporary Physics II	5.0
PHYS 480	Special Topics in Physics: Computer Programming	3.0
UNIV 101	The Drexel Experience	1.0
Term Credits		16.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 105	Computational Physics I	3.0
PHYS 115	Contemporary Physics III	5.0
	Free elective	3.0
Term Credits		18.0
Term 4		Credits
CHEM 101	General Chemistry I	3.5
MATH 200	Multivariate Calculus	4.0
MATH 201	Linear Algebra	4.0
PHYS 217	Thermodynamics	4.0
Term Credits		15.5
Term 5		Credits
CHEM 102	General Chemistry II	4.5
MATH 210	Differential Equations	4.0
PHYS 223	Modern Physics Laboratory	3.0
PHYS 305	Computational Physics II	3.0
	Free elective	3.0
Term Credits		17.5
Term 6		Credits
PHYS 311	Classical Mechanics I	4.0
PHYS 321	Electromagnetic Fields I	4.0
PHYS 324	Topics in Mathematical Physics	3.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 103	General Chemistry III	5.0
	Free elective	3.0
Term Credits		18.0
Term 7		Credits
PHYS 312	Classical Mechanics II	4.0
PHYS 322	Electromagnetic Fields II	4.0
PHYS 328	Advanced Laboratory	3.0

PHYS 227	Instrumentation for Scientists II	3.0
or		
PHYS 306	Computational Physics Laboratory I	2.0
	Free elective	3.0
	Term Credits	17.0
Term 8		Credits
PHYS 226	Instrumentation for Scientists I	3.0
PHYS 324	Topics in Mathematical Physics	3.0
PHYS 326	Quantum Mechanics I	4.0
	Free elective	3.0
	Topical Physics course (See degree requirements)	3.0
	Term Credits	16.0
Term 9		Credits
PHYS 317	Statistical Mechanics	3.0
PHYS 327	Quantum Mechanics II	4.0
PHYS 307	Computational Physics Laboratory II	2.0
	Topical Physics course (See degree requirements)	3.0
	Free elective	2.0
	Term Credits	14.0
Term 10		Credits
PHYS 408	Physics Seminar	1.0
PHYS 428	Quantum Mechanics III	3.0
PHYS 491	Senior Research I	3.0
	Free elective	3.0
	Two Topical Physics courses (See degree requirements)	6.0
	Term Credits	16.0
Term 11		Credits
PHYS 408	Physics Seminar	1.0
PHYS 492	Senior Research II	3.0
	Free electives	6.0
	Topical Physics course (See degree requirements)	3.0
	Term Credits	13.0
Term 12		Credits
PHYS 408	Physics Seminar	1.0
PHYS 493	Senior Research III	3.0
	Free electives	9.0
	Term Credits	13.0
	Total Credits (minimum)	190.0



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Prospective Students

Apply Online

Psychology

About the Major

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

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

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



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Prospective Students

Apply Online

Psychology

Bachelor of Science Degree: 182.0 credits

Degree Requirements

College/University requirements		Credits
CS 161	Introduction to Computing	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
PSCI 100	Introduction to Political Science	4.0
UNIV 101	The Drexel Experience	2.0
	Economics elective	4.0
	Fine arts elective	3.0
	History electives	6.0
	Philosophy elective	3.0
One of the following courses		3.0
ENGL 200 WI	Classical to Medieval Literature	
ENGL 201	Renaissance to the Enlightenment	
ENGL 202 WI	Romanticism to Modernism	
One of the following courses		3.0
ENG 203	Post-Colonial Literature I	
ENG 204	Post-Colonial Literature II	
One of the following course sequences		8.0
BIO 102	Biology I: Cells and Tissues	4.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5

or

PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0
Total credits		56.0

Other courses

Total free elective credits	54.0
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Departmental requirements

General Psychology requirements

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

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

Sociology/Anthropology requirements

Any Sociology course	3.0
Any Anthropology course	3.0

Other courses

100-level requirements (Two of the following courses)

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

Required Psychology courses

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

Advanced Psychology electives (Four of the following courses) 12.0

PSY 210	Comparative Psychology	3.0
PSY 213	Sensation and Perception	3.0
PSY 225	Child Psychology	3.0

PSY 245 WI	Sports Psychology	3.0
PSY 250 WI	Industrial Psychology	3.0
PSY 252	Death and Dying	3.0
PSY 262	Science and Pseudoscience	3.0
PSY 310	Drugs and Human Behavior	3.0
PSY 322	Advanced Developmental Psychology	3.0
PSY 332	Human Factors and Cognitive Engineering	3.0
PSY 337	The Psychology of Human-Computer Interaction	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 342	Counseling Psychology	3.0
PSY 350	Advanced Social Psychology	3.0
PSY 355	Health Psychology	3.0
PSY 356	Women's Health Psychology	3.0
PSY 410	Neuropsychology	3.0
PSY 440	Advanced Personality Seminar	3.0
PSY 442	Theories and Practice in Clinical Psychology	3.0

Senior seminar sequence*

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

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

Total departmental credits	72.0
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Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BS Psychology
 5 YR UG Co-op Concentration

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSY 111	Preprofessional Psychology I	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Math Analysis I	4.0
or		
MATH 121	Calculus I	4.0
BIO 102	Biology I: Cells and Tissues	4.0
or		
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
Term Credits		15.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
PSY 112	Preprofessional Psychology II	3.0
UNIV 101	The Drexel Experience	1.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
MATH 102	Introduction to Math Analysis II	4.0
or		
MATH 122	Calculus II	4.0
PSY 120	Developmental Psychology	3.0
or		
PSY 140	Approaches to Personality	3.0
or		
PSY 150	Introduction to Social Psychology	3.0
Term Credits		18.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
PSY 240	Abnormal Psychology	3.0
PSY 120	Developmental Psychology	3.0
or		
PSY 140	Approaches to Personality	3.0
or		
PSY 150	Introduction to Social Psychology	3.0
	Fine arts elective	3.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0
Term Credits		15.0
Term 4		Credits
PSCI 100	Introduction to Political Science	4.0
ENGL 200	Classical to Medieval Literature	3.0
or		
ENGL 201	Renaissance to the Enlightenment	3.0
or		
ENGL 202	Romanticism to Modernism	3.0
	Advanced Psychology courses (See degree requirements list)	6.0
	Sociology/Anthropology elective (SOC or ANTH)	3.0

Term Credits		16.0
Term 5		Credits
CS 161	Introduction to Computing	3.0
PSY 260	Research Methods in Psychology	3.0
PSY 330	Cognitive Psychology	3.0
ENGL 203	Post-Colonial Literature I	3.0
or		
ENGL 204	Post-Colonial Literature II	3.0
PSY 212	Physiological Psychology	3.0
or		
PSY 230	Psychology of Learning	3.0
	Philosophy (PHIL) elective	3.0
Term Credits		18.0
Term 6		Credits
PSY 340	Psychological Testing and Assessment	3.0
PSY 360	Experimental Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PSY 212	Physiological Psychology	3.0
or		
PSY 230	Psychology of Learning	3.0
	Economics (ECON) elective	4.0
Term Credits		16.0
Term 7		Credits
PSY 365	Computer-Assisted Data Analysis II	3.0
	Free electives	9.0
	History elective	3.0
Term Credits		15.0
Term 8		Credits
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	12.0
	History elective	3.0
Term Credits		18.0
Term 9		Credits
	Advanced Psychology course (See degree requirements for list)	3.0
	Free electives	9.0
Term Credits		12.0
Term 10		Credits
PSY 401	History and Systems	3.0
PSY 490	Psychology Research Seminar I	4.0
	Free electives	6.0
Term Credits		13.0
Term 11		Credits
PSY 491	Psychology Research Seminar II	4.0
	Free electives	9.0
Term Credits		13.0
Term 12		Credits
PSY 492	Psychology Research Seminar III	4.0
	Free electives	9.0
Term Credits		13.0
Total Credits (minimum)		182.0



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Prospective Students

Apply Online

Political Science

The [Department of History and 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.



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Prospective Students

Apply Online

Political Science

Bachelor of Science Degree: 181.0 credits

Degree Requirements

General education requirements		63.0 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
Any 8-credit math sequence*		8.0
Any 8-credit science sequence**		8.0

*** Sample Math sequences: 8.0**

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

****Sample Science 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

Foundation requirements

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

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

Core Political Science Requirements	48.0 Credits
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PSCI 110	American Government I	4.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
PSCI 150	International Politics	4.0
PSCI 210	American Government II	4.0
PSCI 220	Constitution and Judicial Process	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

Political Science Electives*	30 Credits
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* Only 300-level and above PSCI courses will fulfill this this requirement.

History Electives*	9.0 Credits
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* Only 200-level and above HIST courses will fulfill this this requirement.

Free Electives	40.0 Credits
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Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
PSCI 110	American Government I	4.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		16.0

Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
Term Credits		18.0

Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	3.0
PSY 101	General Psychology I	3.0
	Free elective	3.0
Term Credits		16.0

Term 4		Credits
ENGL 202	Romanticism to Modernism	3.0
MUSC 130	Introduction to Music	3.0
CHEM 101	General Chemistry I	3.5
or		
PHYS 103	General Physics I	4.0
or		
BIO 102	Biology I: Cells and Tissues	4.0
	History elective (200-level and above)	3.0
	Statistics elective	4.0
Term Credits		16.5

Term 5		Credits
ENGL 204	Post-Colonial Literature II	3.0
PSCI 240	Comparative Government	3.0
BIO 104	Biology II: Growth and Heredity	4.0
or		
CHEM 102	General Chemistry II	4.5
or		
PHYS 104	General Physics II	4.0
	Free elective	3.0
	History elective (200-level and above)	3.0
Term Credits		16.0

Term 6		Credits
ECON 201	Economics I	4.0
PSCI 210	American Government II	4.0
ANTH 101	Introduction to Cultural Diversity	3.0
or		

ANTH 110	The Human Past	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	Term Credits	17.0
Term 7		Credits
ECON 202	Economics II	4.0
PHIL 105	Critical Reasoning	3.0
PSCI 220	Constitutional and Judicial Process	3.0
PSCI 230	Research Methods in Political Science II	4.0
	Free elective	3.0
	Term Credits	17.0
Term 8		Credits
PSCI 250	American Foreign Policy	3.0
	Free electives	6.0
	Political Science electives (300-level and above PSCI)	6.0
	Term Credits	15.0
Term 9		Credits
PSCI 270	Problems of Individual Liberty and Government Authority	3.0
	Free electives	4.0-6.0
	Political Science electives (300-level and above PSCI)	6.0
	Term Credits	13.0-15.0
Term 10		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI)	6.0
	Term Credits	12.0
Term 11		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI)	6.0
	Term Credits	12.0
Term 12		Credits
	Free electives	6.0
	Political Science electives (300-level and above PSCI)	6.0
	Term Credits	12.0
Total Credits (minimum)		180.5-182.5



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Prospective Students

Apply Online

Political Science

Bachelor of Arts Degree: 181.0 credits

Degree Requirements

General education requirements	67.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Two 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 (ENVR) 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	48.0 Credits
PSCI 110 American Government I	4.0
PSCI 120 History of Political Thought	4.0
PSCI 130 Research Methods in Political Science I	3.0
PSCI 140 Introduction to Comparative Political Analysis	4.0
PSCI 150 International Politics	4.0
PSCI 210 American Government II	4.0
PSCI 220 Constitution and Judicial Process	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

Political Science Electives*	30 Credits
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* Only 300-level and above PSCI courses will fulfill this this requirement.

History Electives*	9.0 Credits
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* Only 200-level and above HIST courses will fulfill this this requirement.

Free Electives	40.0 Credits
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Recommended Plan Of Study

BA Political Science
 5 YR UG Co-op Concentration

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
PSCI 110	American Government I	4.0
PSCI 150	International Politics	4.0
UNIV 101	The Drexel Experience	1.0
	Mathematics course	3.0-4.0
Term Credits		15.0-16.0
Term 2		Credits
ENGL 102	Persuasive Writing and Reading	3.0
PSCI 140	Introduction to Comparative Political Analysis	4.0
UNIV 101	The Drexel Experience	1.0
	Foreign language course (103-level or higher)	4.0
	Mathematics course	3.0-4.0
	Science elective	3.0-4.0
Term Credits		18.0-20.0
Term 3		Credits
ENGL 103	Analytical Writing and Reading	3.0
PSCI 120	History of Political Thought	4.0
PSCI 130	Research Methods in Political Science I	3.0
	Foreign language course (201-level or higher)	4.0
	Science elective	3.0
Term Credits		17.0
Term 4		Credits
	Diversity studies elective	3.0
	History elective (200-level and above)	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral sciences electives	6.0
Term Credits		15.0
Term 5		Credits
PSCI 240	Comparative Government	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	Humanities/Fine Arts elective	3.0
	Social and Behavioral sciences elective	3.0
Term Credits		15.0
Term 6		Credits
PSCI 210	American Government II	4.0
	Diversity studies elective	3.0
	Free elective	3.0
	History elective (200-level and above)	3.0
	International studies elective	3.0
Term Credits		16.0
Term 7		Credits
PSCI 220	Constitutional and Judicial Process	3.0
PSCI 230	Research Methods in Political Science II	4.0
	Free electives	6.0
	Humanities/Fine Arts elective	3.0

International studies elective	3.0
Term Credits	19.0
Term 8	Credits
PSCI 250 American Foreign Policy	3.0
Free elective	3.0
Humanities/Fine Arts elective	3.0
Political Science elective (300-level and above PSCI)	3.0
Social and Behavioral sciences elective	3.0
Term Credits	15.0
Term 9	Credits
PSCI 270 Problems of Individual Liberty and Government Authority	3.0
Free electives	6.0
Political Science electives (300-level and above PSCI)	6.0
Term Credits	15.0
Term 10	Credits
Free electives	6.0
Political Science electives (300-level and above PSCI)	6.0
Term Credits	12.0
Term 11	Credits
Free electives	6.0
Political Science electives (300-level and above PSCI)	6.0
Term Credits	12.0
Term 12	Credits
Free elective	3.0
Political Science electives (300-level and above PSCI)	9.0
Term Credits	12.0
Total Credits (minimum)	181.0-184.0



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Prospective Students

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Sociology

About the Major

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

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



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Prospective Students

Apply Online

Sociology

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

University Requirements	23.0-25.0 Credits
ENGL 101 Expository Writing and Reading	3.0
ENGL 102 Persuasive Writing and Reading	3.0
ENGL 103 Analytical Writing and Reading	3.0
UNIV 101 The Drexel Experience	2.0
Two Mathematics courses	6.0-8.0
Two Science courses	6.0-8.0

College Requirements	44.0-48.0 Credits
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Foreign Language

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

Humanities and Fine Arts

Four Humanities/Fine Arts courses	12.0
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Social and Behavioral Sciences

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

International Studies

Two International Studies courses	6.0
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Studies in Diversity

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

Sociology Core Requirements	54.0 Credits
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Justice Sequence

SOC 270	Theory of Applied and Community Sociology	3.0
ANTH 370	Ethnographic Methods	3.0
SOC 370	Practicum in Applied and Community Sociology	3.0-9.0
SOC 470 WI	Social Change and Social Planning	3.0

Theory Sequence

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

Methods Sequence

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

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 courses:

SOC 205	Criminology and Social Justice	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 220	Wealth and Power	3.0
SOC 320 WI	Sociology of Deviant Behavior	3.0
SOC 330	Developing Nations	3.0
SOC 460 WI	Contemporary Social Theory	3.0

Other Program Requirements

30.0 Credits

Students select a minimum of 30 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 250	Research Methods I	3.0
SOC 335	Sociology of Education I	3.0
SOC 360	Juvenile Justice	3.0
SOC 380	Special Topics in Sociology	2.0
SOC 490	Directed Studies: Sociology Research Seminar I	4.0
SOC 491	Sociology Research Seminar II	4.0
SOC 492	Sociology Research Seminar III	4.0
PSY 150	Introduction to Social Psychology	3.0
PSY 252	Death and Dying	3.0
PSY 350	Advanced Social Psychology	3.0
UNIV 380	Special Topics: University-Wide	2.0

Electives	31.0-35.0 Credits
Free electives	31.0-35.0

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.



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BA Sociology

5 YR UG Co-op Concentration

Term 1		Credits
ENGL 101	Expository Writing and Reading	3.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
MATH 101	Introduction to Analysis I	4.0
or		
MATH 121	Calculus I	4.0
	Foreign language course	4.0
	Philosophy (PHIL) elective	3.0
Term Credits		18.0
Term 2		Credits
COM 150	Mass Media and Society	3.0
ENGL 102	Persuasive Writing and Reading	3.0
UNIV 101	The Drexel Experience	1.0
MATH 102	Introduction to Analysis II	4.0
or		
MATH 122	Calculus II	4.0
	Foreign language course	4.0
Term Credits		15.0
Term 3		Credits
ANTH 101	Introduction to Cultural Diversity	3.0
ENGL 103	Analytical Writing and Reading	3.0
SOC 260	Classical Social Theory	3.0
SOC 270	Theory of Applied and Community Sociology	3.0
	Free elective (The program recommends a 3rd language course)	4.0
Term Credits		16.0
Term 4		Credits
COM 220	Introduction to Communication Research	3.0
	Humanities/Fine Arts elective	3.0
	Sociology core course (See degree requirements)	3.0
	Science elective	3.0-4.0
	Writing/Communication elective (See approved course list)	3.0
Term Credits		15.0-16.0
Term 5		Credits
ANTH 370	Ethnographic Methods	3.0
COM 210	Theory and Models of Communication	3.0
SOC 250	Research Methods I	3.0
	Free elective	3.0
	Science elective	3.0-4.0
Term Credits		15.0-16.0
Term 6		Credits
SOC 470	Social Change & Planning	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
Term Credits		15.0

Term 7		Credits
SOC 364	Computer-Assisted Data Analysis	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
	Term Credits	15.0
Term 8		Credits
SOC 370	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
	Term Credits	15.0
Term 9		Credits
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	International studies elective	3.0
	Additional program courses (See degree requirements list)	6.0
	Term Credits	15.0
Term 10		Credits
ANTH 410	Cultural Theory	3.0
	Free elective	3.0
	Humanities/Fine Arts elective	3.0
	Additional program courses (See degree requirements list)	6.0
	Term Credits	15.0
Term 11		Credits
	Free electives	9.0
	Additional program courses (See degree requirements list)	6.0
	Term Credits	15.0
Term 12		Credits
	Free electives	9.0
	Humanities/Fine Arts elective	3.0
	Additional program courses (See degree requirements list)	3.0
	Term Credits	15.0
Total Credits (minimum)		184.0-186.0



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Prospective Students

Apply Online

Unified Science

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

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

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

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

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

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



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Prospective Students

Apply Online

Unified Science

Bachelor of Science Degree: 185.5 credits

Degree Requirements

General education requirements		Credits
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
MATH 200	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		40.0

Science requirements		Credits
BIO 121	Physiology and Nutrition	4.5
BIO 122	Cells and Genetics	4.5
BIO 123	Organismal Diversity and Ecology	4.5
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques of Cell Biology	2.5
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques of Molecular Biology	2.5
BIO 306	Biochemistry Laboratory	5.5
BIO 311	Metabolism	4.0
BIO 404	Structure and Function of Biomolecules	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 241	Organic Chemistry I	4.0

CHEM 242	Organic Chemistry II	4.0
PHYS 111	Physics I	4.5
PHYS 112	Physics II	4.5
PHYS 211	Physics III	4.5
PHYS 217	Thermodynamics	4.0
PHYS 222	Modern Physics	4.0
	Science sequence	8.0
	Science elective	8.0

Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BS Unified Science
 5 YR UG Co-op Concentration

Term 1		Credits
BIO 121	Physiology of Nutrition	4.5
CHEM 101	General Chemistry I	3.5
ENGL 101	Expository Writing and Reading	3.0
MATH 121	Calculus I	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		16.0
Term 2		Credits
BIO 122	Cells and Genetics	4.5
CHEM 102	General Chemistry II	4.5
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
Term Credits		17.0
Term 3		Credits
BIO 123	Organismal Diversity & Ecology	4.5
ENGL 103	Analytical Writing and Reading	3.0
MATH 123	Calculus III	4.0
PHYS 111	Physics I	4.5
Term Credits		16.0
Term 4		Credits
CHEM 241	Organic Chemistry I	4.0
MATH 200	Multivariate Calculus	4.0
PHYS 112	Physics II	4.5
	Free elective	3.0
Term Credits		15.5
Term 5		Credits
CHEM 242	Organic Chemistry II	4.0
MATH 201	Linear Algebra	4.0
PHYS 211	Physics III	4.5
	Free elective	3.0
Term Credits		15.5
Term 6		Credits
BIO 306	Biochemistry Laboratory	2.0
BIO 311	Metabolism	4.0
MATH 210	Differential Equations	4.0
PHYS 212	Physics IV	4.0
	Liberal arts elective	3.0
Term Credits		17.0
Term 7		Credits
BIO 218	Principles of Molecular Biology	3.0
BIO 219	Techniques in Molecular Biology	2.5
BIO 404	Structure and Function of Biomolecules	4.0
	Free elective	3.0
	Liberal arts elective	3.0
Term Credits		15.5

Term 8		Credits
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques in Cell Biology	2.5
PHYS 217	Thermodynamics	4.0
	Liberal arts elective	3.0
	First course in a 3-part laboratory science sequence	4.0-4.5
Term Credits		16.5-17.0
Term 9		Credits
	Computer programming elective	3.0
	Liberal arts elective	3.0
	Science elective	4.0
	Second course in a 3-part laboratory science sequence	4.0
Term Credits		14.0
Term 10		Credits
	Business elective	3.0
	Free electives	12.0
Term Credits		15.0
Term 11		Credits
	Business elective	4.0
	Free electives	6.0
	Science elective	4.0
Term Credits		14.0
Term 12		Credits
	Free electives	13.0
Term Credits		13.0
Total Credits (minimum)		185.0-185.5



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Apply Online

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 B.S. 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.



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Prospective Students

Apply Online

Urban Environmental Studies

Bachelor of Science Degree: 184.0 credits

Degree Requirements

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 Economics I	4.0
ECON 202	Principles of Economics II	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 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
or		
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
ENVR 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
SOC 341	Environmental Movements in the U.S.	3.0
SOC 345	Sociology of the Environment	3.0
SOC 346	Environmental Justice	3.0
SOC 347	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
ENVR 260	Environmental Science and Society I	3.0
ENVR 262	Environmental Science and Society II	3.0
ENVR 284 WI	Ecology I: Physiological and Population Ecology	5.0
ENVR 286 WI	Ecology II: Communities and Ecosystems	5.0
ENVR 321	Environmental Health*	3.0
ENVR 338	Biodiversity and Conservation	3.0
ENVR 342	Bioclimatology	3.0
ENVR 436	Principles of Toxicology I	3.0
ENVR 441 WI	Issues in Global Change I	2.0
ENVR 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
ENVR 316	Sanitary Microbiology	3.0
ENVR 330	Aquatic Ecology	3.0
ENVR 335	Industrial Safety	3.0
ENVR 431	Environmental Epidemiology	3.0
ENVR 437	Principles of Toxicology II	3.0
HIST 285	Technology in Historical Perspective	3.0
PSCI 243	Economic Geography	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	Special Topics in Sociology*	3.0
ANTH 380	Special Topics in Anthropology*	3.0
COM 380	Special Topics in Communication Theory*	3.0

*Additional special topics courses as appropriate.

Electives	14.0 Credits
Free electives	14.0

Writing-Intensive Course Requirements

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

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



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Recommended Plan Of Study

BS Urban Environmental Studies
 4 YR UG No Co-op Concentration

Term 1		Credits
BIO 102	Biology I: Cells and Tissues	4.0
ENGL 101	Expository Writing and Reading	3.0
MATH 101	Introduction to Analysis I	4.0
SOC 101	Introduction to Sociology	3.0
UNIV 101	The Drexel Experience	1.0
Term Credits		15.0
Term 2		Credits
BIO 104	Biology II: Growth and Heredity	4.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 102	Introduction to Analysis II	4.0
UNIV 101	The Drexel Experience	1.0
	Free elective	3.0
Term Credits		15.0
Term 3		Credits
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
BIO 106	Biology III: Organismal Biology	4.0
ENGL 103	Analytical Writing and Reading	3.0
PSCI 110	American Government I	3.0
SOC 240	Urban Sociology	3.0
Term Credits		16.0
Term 4		Credits
ANTH 360	Culture and the Environment	3.0
CHEM 151	Applied Chemistry	3.0
COM 220	Introduction to Communication Research	3.0
ECON 201	Economics I	4.0
ENVR 260	Environmental Science & Society I	3.0
Term Credits		16.0
Term 5		Credits
ECON 202	Economics II	4.0
ENVR 262	Environmental Science & Society II	3.0
SOC 260	Classical Social Theory	3.0
SOC 345	Sociology of the Environment	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
Term Credits		16.0
Term 6		Credits
PSCI 331	Environmental Politics	3.0
SOC 250	Research Methods I	3.0
SOC 270	Theory of Applied and Community Sociology	3.0
	Free elective	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
Term Credits		15.0
Term 7		Credits
PHEV 145	Weather I: Climate and Global Change	4.0
PSCI 427	Urban Politics	3.0
SOC 341	Environmental Social Movements in the U.S.	3.0
SOC 346	Environmental Justice	3.0

	Free elective	3.0
	Term Credits	16.0
Term 8		Credits
ANTH 370	Ethnographic Methods	3.0
COM 210	Theory and Models of Communication	3.0
ENGL 325	Topics in World Literature: Non-Western Environmental Literature	3.0
ENVR 284	Ecology I: Physiological and Population Ecology	5.0
	Free elective	3.0
	Term Credits	17.0
Term 9		Credits
ECON 351	Resource and Environmental Economics	4.0
ENGL 300	Literature and Science	3.0
ENVR 370	Practice of Environmental Economics	3.0
SOC 364	Computer-Assisted Data Analysis I	3.0
	History elective	3.0
	Term Credits	16.0
Term 10		Credits
ENVR 286	Ecology II: Communities and Ecosystems	5.0
ENVR 436	Principles of Toxicology I	3.0
PHIL 341	Philosophy of the Environment	3.0
SOC 347	Introduction to Environmental Policy Analysis	3.0
	Term Credits	14.0
Term 11		Credits
ANTH 410	Cultural Theory	3.0
ENVR 342	Bioclimatology	3.0
ENVR 441	Issues Global Change I: Seminar	2.0
HIST 285	Technology in Historical Perspective	3.0
	Urban Environmental Studies course (See degree requirements)	3.0
	Term Credits	14.0
Term 12		Credits
COM 380	Special Topics in Communication: Environmental Communication	3.0
ENVR 321	Environmental Health	3.0
ENVR 338	Biodiversity and Conservation	3.0
ENVR 442	Issues Global Climate Change II: Research	2.0
	Free elective	3.0
	Term Credits	14.0
	Total Credits (minimum)	184.0



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Minor in Africana Studies

The minor in Africana Studies was created to provide the opportunity for undergraduate students throughout the University to gain an understanding of and background in the history and cultures of peoples of African descent in North and South America, the Caribbean, and Africa. This interdisciplinary minor includes courses in anthropology, history, literature, music, political science, and sociology, and provides an opportunity for directed study in areas of particular interest to the students. The Africana Studies minor has intrinsic intellectual value and helps prepare individuals to become contributors to an increasingly pluralistic society. At the same time, this minor allows students 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

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

Six of the following courses **15.0-18.0**

AFAS 250 African American Herstories	3.0
AFAS 295 Special Topics in Africana Studies	3.0
AFAS 298 Independent Study for Minors: Global Urban Education: I, II, III	.5 - 3.0
AFAS 395 Special Topics in Africana Studies	3.0
ANTH 101 Cultural Diversity	3.0
ANTH 310 Societies in Transition: The Impact of Modernization and the Third World	3.0
ENGL 203 WI Post-Colonial Literature I	3.0
ENGL 204 Post-Colonial Literature II	3.0
ENGL 325 Special Topics in World Literature: Latin American Literature	3.0
HIST 216 Freedom in America	3.0
HIST 215 American Slavery	3.0
MUSC 107 Jazz Ensemble and Combo	3.0
MUSC 333 African-American Music in the United States	3.0
PSCI 354 US and Third World Politics	3.0
PSCI 472 Special Studies in Political Science: Urban Politics	3.0

WMST 240	Women in Society/Global Context	3.0
WMST 280	Special Topics in Women's Studies: Language, Gender and Power	3.0

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Prospective Students

Apply Online

Minor in American Studies

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

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

Courses	Credits
One of the following courses	
HIST 201 US History to 1815	3.0
HIST 202 US History, 1815-1900	3.0
HIST 203 US History since 1900	3.0
Two of the following courses	
HIST 215 American Slavery	3.0
HIST 216 Freedom in America	3.0
HIST 220 History of American Business	3.0
HIST 224 Women in American History	3.0
HIST 232 The American Revolution	3.0
HIST 234 US Civil War	3.0
PSCI 110 American Government*	4.0
Two of the following courses	
PSCI 310 American Political Parties and Pressure Groups	3.0
PSCI 313 State and Local Government	3.0
PSCI 330 Public Opinion and Propaganda	3.0
PSCI 360 Constitution and the Judicial Process	3.0
PSCI 363 Civil Liberties	3.0
PSCI 365 Politics, Law, and Justice	3.0

Two of the following courses		6.0
ENGL 205 WI	American Literature I	3.0
ENGL 206 WI	American Literature II	3.0
ENGL 245	American Ethnic Literature	3.0
MUSC 336	History of Jazz	3.0
MUSC 338 WI	American Popular Music	3.0
SOC 210	Race and Ethnic Relations	3.0

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

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Prospective Students

Apply Online

Minor in Anthropology

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

Required (core) courses	Credits
ANTH 101 Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 110 The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ANTH 210 Worldview: Science, Religion, Magic	3.0
ANTH 370 Ethnographic Methods	3.0
ANTH 410 Cultural Theory	3.0
Three of the following courses	9.0
ANTH 215 Anthropology of Gender	3.0
ANTH 330 Media Anthropology	3.0
ANTH 120 Biblical Archaeology	3.0
ANTH 212 Topics in World Ethnography	3.0
ANTH 220 Aging in Cross-Cultural Perspectives	3.0
ANTH 240 Urban Anthropology	3.0
ANTH 310 Societies in Transition	3.0
ANTH 312 Approaches to Intercultural Behavior	3.0
ANTH 355 Anthropology of Cyberspace	3.0
ANTH 360 Culture and the Environment	3.0
ANTH 365 Family and Kinship	3.0
ANTH 380 Special Topics in Anthropology	3.0



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Prospective Students

Apply Online

Minor in Astrophysics

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

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

Required Courses

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

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

**Two terms, one credit each term.

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



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Prospective Students

Apply Online

Minor in Biological Sciences*

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

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

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

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



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Apply Online

Minor in Chemistry

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

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

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

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

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



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Prospective Students

Apply Online

Minor in Communication

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

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

Core courses

	Credits
COM 210 Theories of Communication	3.0
PHIL 305 Communication Ethics	3.0
COM 380 Special Topics in Communication	3.0

Journalism focus

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

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

Corporate and Public Relations focus

COM 270 WI Business Communication	3.0
COM 280 Public Relations*	3.0

Technical and Science Communication focus

COM 310 WI Technical Communication	3.0
COM 320 WI Science Writing	3.0
or COM 375 WI Grant Writing	

Additional courses

Three Communication (COM) or Linguistics (LING) electives	9.0
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Prospective Students

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Minor in Criminal Justice

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

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

Required courses

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

Criminal Justice Elective Courses

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

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

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

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

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

PSCI 365	Politics, Law, and Justice	3.0
PSY 150	Introduction to Social Psychology	3.0
PSY 240	Abnormal Psychology	3.0
PSY 370	Forensic Psychology	3.0

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

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Minor in Ecology

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

Required Courses

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

Students select either

PHEV 145 Weather 1: Climate and Global Change	4.0
or both	
CHEM 230 Quantitative Analysis	3.0
CHEM 231 Quantitative Analysis Laboratory	2.0
WI	



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Prospective Students

Apply Online

Minor in English

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

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

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

One writing elective:		3.0 Credits
WRIT 220	Creative Nonfiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 400 WI	Writing in Cyberspace	3.0

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

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Prospective Students

Apply Online

Minor in Environmental Health

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

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

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



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Prospective Students

Apply Online

Minor in Environmental Issues

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

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



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Minor in European Studies

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

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

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

HIST 251	Fascism	3.0
HIST 252	Europe between Wars, 1919-1939	3.0
One of the following courses		3.0
ARTH 101	History of Art I: Ancient to Medieval	3.0
ARTH 102	History of Art II: Renaissance to Modern	3.0
ARTH 103	History of Art III: Early Modern to Postmodernism	3.0
ENGL 200 WI	Classical to Medieval Literature	3.0
ENGL 201	Renaissance to the Enlightenment	3.0
ENGL 202 WI	Romanticism to Modernism	3.0
ENGL 250	Themes in Literature and the Arts	3.0
ENGL 310 WI	Period Studies	3.0
ENGL 315 WI	Shakespeare	3.0
MUSC 231 WI	Ancient, Medieval, and Renaissance Music	3.0
MUSC 233	Music of the Baroque Era	3.0
MUSC 235 WI	18th- and 19th-century Music	3.0
MUSC 237	20th-century Music	3.0

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Minor in Food Science

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

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

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



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Apply Online

Minor in History

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

Courses	Credits
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One of the following history sequences	6.0-9.0
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HIST 161	Themes in World Civilization I	3.0
HIST 162	Themes in World Civilization II	3.0
HIST 163	Themes in World Civilization III	3.0

or

HIST 167	Twentieth-century World I	3.0
HIST 168	Twentieth-century World II	3.0

or

HIST 201	US History to 1815	3.0
HIST 202	US History, 1815-1900	3.0
HIST 203	US History since 1900	3.0

History & Politics electives	15.0-18.0
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Prospective Students

Apply Online

Minor in Human Factors and Ergonomics

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

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

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

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

One additional course from the following list

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

PSY 310	Drugs and Human Behavior	3.0
PSY 340	Psychological Testing and Assessment	3.0
PSY 350	Advanced Social Psychology	3.0

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Minor in International Area Studies

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

Prerequisite: completion of Level 201 in a language

Core requirements		Credits
IAS 359	Culture and Values	3.0
PSCI 243	Economic Geography	3.0
INTB 334	International Trade	3.0
or		
INTB 336	International Money and Finance	3.0
ECON 340	International Business	3.0
or		
MKTG 357 WI	International Marketing	4.0
Area studies electives		12.0
Language courses at level 312 and above and/or courses in literature, history, politics, social theory, and business in the area of specialization		



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The Louis Stein Minor in Judaic Studies

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

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

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

* Offered concurrently with ENGL 350 Jewish Literature and Civilization.

** Offered concurrently with HIST 298 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 Kathy Carll, Program Coordinator, Judaic Studies Program, 215-895-6388, judaicstudies@drexel.edu or Professor Rakhmiel Peltz, Director of Judaic Studies, 215-895-1499, rakhmiel.peltz@drexel.edu. The Judaic Studies Program offices are located in Room 331 of Hagerty Library.



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Minors in Modern Languages

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

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

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

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

Certification of Proficiency

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

Language Minors

Requirements, Western languages

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

Course options (subject to placement level)

201- 203	Advanced Conversation and Composition
311- 312; 411	Stylistics; Advanced Stylistics
332; 333	Literature; Advanced Studies in Literature
351	Business and the Professions
451	Advanced Topics in Business and Professions: European Union
371; 471	Civilization; Advanced Studies in Civilization
399; 499	Special Topics: Literature; Business and Civilization*

***Special topics courses may be repeated for credit.**

Requirements, non-western languages

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

Course options (subject to placement level)

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

Modern Languages Faculty

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

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

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

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

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

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Minor in Nutrition

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

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

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



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Minor in Philosophy

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

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

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

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

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

One of the following courses **3.0**

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

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

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

One of the following courses **3.0**

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

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

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

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

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Minor in Physics

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

Courses	Credits
PHYS 113 Contemporary Physics I	5.0
PHYS 114 Contemporary Physics II	5.0
PHYS 115 Contemporary Physics III	5.0
PHYS 311 Classical Mechanics I	4.0
PHYS 312 Classical Mechanics II	4.0
PHYS 321 Electromagnetic Fields I	4.0
PHYS 326 Quantum Mechanics I	4.0

Electives*

PHYS 305 Computational Physics II	3.0
PHYS 471 Nonlinear Dynamics	3.0
PHYS 322 Electromagnetic Fields II	4.0
PHYS 327 Quantum Mechanics II	4.0
PHYS 480 Special Topics: Principles of Laser Physics	3.0
PHYS 451 Quantum Structure of Materials	4.0
PHYS 476 Nuclear and Particle Physics	4.0

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



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Minor in Political Science

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

Courses	Credits
Three of the following courses	12.0
PSCI 100 Introduction to Political Science	4.0
PSCI 110 American Government 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

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



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Minor in Psychology

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

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

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

PSY 350	Advanced Social Psychology	3.0
PSY 360	Experimental Psychology	3.0
PSY 364	Computer-Assisted Data Analysis I	3.0
PSY 365	Computer-Assisted Data Analysis II	3.0
PSY 401	History and Systems	3.0
PSY 410	Neuropsychology	3.0
PSY 442	Theories and Practice in Clinical Psychology	3.0
PSY 480	Directed Studies in Psychology	Variable

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Minor in Science, Technology, and Human Affairs

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

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

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

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

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



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Minor in Sociology

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

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



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Prospective Students

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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	Credits
ANTH 360 Culture and the Environment	3.0
ENVR 260 Environmental Science and Society I	3.0
ENVR 262 Environmental Science and Society II	3.0
SOC 240 Urban Sociology	3.0
SOC 341 Environmental Movements in the U.S.	3.0
SOC 345 Sociology of the Environment	3.0

Natural Science Electives

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

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

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

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Prospective Students

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Minor in Women's Studies

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

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

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

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

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

PSY 480 WI	Women and Health Psychology	3.0
SOC 230	Women and Men in a Changing Society	3.0
WMST 201	Special Topics in Women's Studies	3.0
WMST 299	Independent Study	up to 6.0

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Minor in World History and Politics

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

Students are required to take 24 credits as follows:

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

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

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

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

ENGL 204	Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East	
ENGL 325	Topics in World Literature	
ECON 340	International Business	3.0
ECON 342	Economic Development	
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 210	Worldview: Science, Religion, Magic	
ANTH 310	Societies in Transition: The Impact of Modernization and the Third World	
SOC 330	Developing Nations and the International Division of Labor	
MUSC 331	World Musics	3.0
	Appropriate art course	

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Certificate in Humanities, Health Sciences and Society

18.0 credits

About the program

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

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

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

Opportunities

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

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

Additional information

For additional information, contact the program directors:

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

David H. Flood, Ph.D.
 Health and Society Program, Drexel University
david.flood@drexel.edu

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

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

Students select one of the following literature courses:

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

Students select one of the following philosophy courses:

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

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

Anthropology

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

Art History

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

Biology

BIO 212	Biotechnology	3.0
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Biomedical Engineering

BMES 338	Biomedical Ethics and Law	3.0
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Environmental Science and Policy

ENVR 321	Environmental Health	3.0
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History

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

HUMN 314S	Medicine and the Arts	3.0
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Nursing

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

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

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

About the Program

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

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

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

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

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

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

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

For additional information, contact the program director:

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Prospective Students

Apply Online

Professional Writing and Publishing

18.0 credits

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

This track offers three focus options:

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

Business Communication and Publishing

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

Students select one of the following professional writing courses:

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

Students select one of the following publishing courses:

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

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

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

Technical Communication and Publishing

Required courses

COM 310	Technical Communication	3.0
COM 410	Advanced Technical Communication	3.0

Students select one of the following professional writing courses:

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

Students select one of the following publishing courses:

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

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

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

Journalism

Required course:

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

COM 300	On-line Journalism	3.0
COM 390	Global Journalism	3.0
COM 380	Special Topics: Advanced Journalism: Investigative Reporting	3.0

Students select one of the following publishing courses:

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

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

COM 270	Business Communication	3.0
COM 310	Technical Communication	3.0
COM 410	Advanced Technical Communication	3.0
COM 370	Advanced Business Communication	3.0
COM 320	Science Writing	3.0
COM 420	Technical Editing	3.0
COM 375 WI	Grant Writing	3.0
WRIT 220	Creative Non-Fiction	3.0
WRIT 225	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
WRIT 304	Special Topics: (Humor, Autobiography, Writing about the Media)	3.0



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Prospective Students

Apply Online

Creative Writing and Publishing

18.0 credits

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

Students select three of the following creative writing courses:

	Credits
WRIT 220 Creative Non-Fiction	3.0
WRIT 225 Creative Writing	3.0
WRIT 301 Writing Poetry	3.0
WRIT 302 Writing Humor and Comedy	3.0
WRIT 303 Writing Humor and Comedy	3.0

Students select one of the following publishing courses:

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

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

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



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Prospective Students

Apply Online

Comprehensive Writing and Publishing

18.0 credits

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

Students select two of the following publishing courses:

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

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

Creative writing

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

Professional writing

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

Journalism

COM 260 Fundamentals of Journalism	3.0
COM 300 On-line Journalism	3.0
or	
COM 390 Global Journalism	3.0