Table of Contents The College of Arts and Sciences

Undergraduate Programs

| About the College of Arts and Sciences | 3 |
|--|-----|
| Majors | |
| BA in Anthropology | 6 |
| BS in Biological Sciences | |
| Chemistry | |
| BA in Chemistry | |
| BS in Chemistry | 35 |
| Communication | 42 |
| BA in Communication: Corporate and Public Relations Concentration | |
| BS in Communication: Corporate and Public Relations Concentration | 48 |
| BA in Communication: Global Journalism Concentration | 54 |
| BS in Communication: Technical and Science Communication Concentration | |
| BS in Criminal Justice | 66 |
| BA in English | 74 |
| BS in Environmental Science | 82 |
| BS in Environmental Studies | 92 |
| History | |
| BA in History | |
| BS in History | |
| BS/BA in History and MS in Science, Technology & Society | |
| BS/BA in History and MS in Library and Information Science | 111 |
| BA in International Area Studies | 112 |
| Global Science, Technology and Society Concentration | |
| International Business and Economics Concentration | 117 |
| Justice and Human Rights Concentration | |
| Literature, Culture and the Arts Concentration | |
| Mathematics | |
| BA in Mathematics | |
| BS in Mathematics | |
| BA in Philosophy | |
| BS in Physics | 155 |
| BS in Psychology | 162 |
| Political Science | |
| BA in Political Science | |
| BS in Political Science | |
| BS/BA in Political Science and MS in Science, Technology & Society | |
| BA in Sociology | 182 |

Minors

| Africana Studies | 189 |
|--|-----|
| American Studies | 191 |
| Anthropology | 193 |
| Astrophysics | 194 |
| Bioinformatics | 195 |
| Biological Sciences | 197 |
| Bioscience and Society | 198 |
| Chemistry | 199 |
| Communication | 200 |
| Computer Crime | 202 |
| Criminal Justice | 203 |
| Ecology | 204 |
| English | 205 |
| Environmental Engineering | 207 |
| Environmental Studies | 208 |
| European Studies | 209 |
| Fine Art | 211 |
| Greek Studies | 213 |
| History | 215 |
| Human Factors and Ergonomics | 216 |
| International Area Studies | |
| Judaic Studies | 221 |
| Mathematics | 222 |
| Modern Languages (Arabic, Chinese, French, German, Greek, Hebrew, Italian, Japanese, Korean, Russian, Spanish) | |
| Paralegal Studies | |
| Philosophy | 227 |
| Physics | |
| Politics | 230 |
| Psychology | 231 |
| Sociology | 233 |
| Women's Studies | 235 |
| World History and Politics | 236 |
| Certificate Programs | |
| Philosophy in the Arts and Humanities Certificate | |
| Philosophy in Science and Technology Certificate | 239 |
| Muiting and Dublishing Contificate | 240 |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

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, social sciences and the sciences in a fast-changing, challenging, and diverse world.

About the College of Arts and Sciences

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

Each major offered by the College of Arts and Sciences combines interdisciplinary study with hands-on, experiential learning to prepare students for a variety of careers, as well as graduate or professional school. Each combines arts and sciences coursework with an emphasis on new and emerging technologies related to their respective fields.

All undergraduate majors in the College offer co-operative education program options, with special opportunities relating academic study to work experience, or internships. Additionally, students across the College are encouraged to work alongside faculty in research projects that related to their academic and professional goals.

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

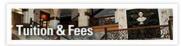
For additional information, visit the the College of Arts and Sciences website.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

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 to apply their studies through Drexel's well-established co-operative education program are available, though it is recommended that students take advantage of the experience provided by co-op.

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

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

Bachelor of Science Degree Programs

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

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

Science and Mathematics Curriculum

All Students in biology, environmental sciences, chemistry, mathematics, and physics study similar subjects during the freshman year. This recognizes the fundamental knowledge common to those disciplines; it also allows for transfer between majors at the end of the freshman year without loss of time. Upper-class students in those disciplines are given the opportunity to take related electives in liberal, scientific, and technical fields.

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

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

Humanities and Social Science Curriculum

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

Students in the communication major will take at least one course in their proposed concentration of public relations, global journalism, or technical communication during the freshman year. More intensive work in the concentration begins in the sophomore year, as do elective options.

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

Secondary and Elementary Teacher Certification

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

Accelerated Degree Program

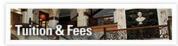
The Accelerated Degree Program in the College of Arts and Sciences provides opportunities for highly talented and strongly motivated students to complete both an undergraduate degree and a master's degree in five years. Students generally enroll in a five year co-op program, but replace the third co-op with courses to complete the graduate degree requirements.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

4

Accelerated Preprofessional Degree

The College accepts highly qualified and motivated students into accelerated BS/BA +MD and BS/BA +JD degrees. Students must apply to be admitted into these programs before starting at Drexel. For more information, students should contact the Office of Undergraduate Admissions.

Preprofessional Programs

Students wishing to prepare for admission to professional schools of medicine, veterinary medicine, dentistry, or public health, may obtain preprofessional counseling and application assistance at the Steinbright Career Development Center. For health profession application assistance, students may call . For law school admission assistance, students may call .

Degree Requirements

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

Writing-Intensive Course Requirements

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

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.

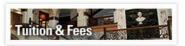
For more information about the Anthropology major, visit the Culture and Communication department's Anthropology web site.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS

Anthropology Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

| General requirements | | 31.0 - 35.0 Credits | |
|--|--------------------------------|---------------------|-----|
| ENGL 101 | Expository Writing and Reading | | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | ı | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| UNIV 101 | The Drexel Experience | | 2.0 |
| Two Mathemat | ics courses | 6.0-8.0 | |
| Two Science co | ourses | 6.0-8.0 | |
| Foreign langua | age courses | | |
| A minimum of two consecutive language courses* | | 8.0 | |

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

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

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

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

| Studies in Dive | ersity | 6.0 Credits |
|-----------------|---|-------------|
| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| Anthropology requirements | |
|---|--|
| search | |
| Theory of Applied and Community Sociology | 3.0 |
| Ethnographic Methods | 3.0 |
| Seminar in Ethnography | 12.0 |
| ence | |
| Qualitative Research Methods | 3.0 |
| Research Methods I | 3.0 |
| Computer-Assisted Data Analysis I | 3.0 |
| се | |
| Communication Theory | 3.0 |
| Classical Social Theory | 3.0 |
| Cultural Theory | 3.0 |
| | Theory of Applied and Community Sociology Ethnographic Methods Seminar in Ethnography Price Qualitative Research Methods Research Methods I Computer-Assisted Data Analysis I ce Communication Theory Classical Social Theory |

| Anthropology Program Requirements Students select 30.0 credits from the following list: | | 30.0 Credits |
|---|--------------------------------------|--------------|
| ANTH 120 | Biblical Archaeology | 3.0 |
| ANTH 210 | Worldview: Science, Religion, Magic | 3.0 |
| ANTH 212 | Topics in World Ethnography | 3.0 |
| ANTH 220 | Aging in Cross-Cultural Perspectives | 3.0 |
| ANTH 240 | Urban Anthropology | 3.0 |
| ANTH 255 | Psychological Anthropology | 3.0 |
| ANTH 312 | Approaches to Intercultural Behavior | 3.0 |
| ANTH 355 | Anthropology of Cyberspace | 3.0 |
| ANTH 360 | Culture and the Environment | 3.0 |
| ANTH 365 | Family and Kinship | 3.0 |
| ANTH 380 | Special Topics in Anthropology | 3.0 |
| COM 345 | Intercultural Communication | 3.0 |
| COM 360 | International Communication | 3.0 |
| SOC 125 | Sociology of Aging | 3.0 |
| SOC 210 | Race and Ethnic Relations | 3.0 |
| SOC 220 | Wealth and Power | 3.0 |

| Electives | | 45.0 -49.0 Credits | ; |
|-----------|----------------|--------------------|------------|
| | Free electives | | 45.0 -49.0 |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



3.0

Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

BA Anthropology
4 YR UG Co-op Concentration

| ENGL 101 Expository Writing and Reading 3.0 | Term 1 | | Credits |
|--|-----------------|------------------------------------|-----------|
| New 1.00 | ANTH 101 | Introduction to Cultural Diversity | 3.0 |
| Math elective 3.0-4.0 Foreign language course 4.0 Term Credits 14.0-15.0 Term 2 | ENGL 101 | Expository Writing and Reading | 3.0 |
| Foreign language course 4.0 Term Credits 14.0-15.0 Term 2 | UNIV 101 | The Drexel Experience | 1.0 |
| Term Credits | | Math elective | 3.0-4.0 |
| Term Credits | - | Foreign language course | 4.0 |
| ANTH 110 The Human Past 3.0 ENGL 102 Persuasive Writing and Reading 3.0 UNIV 101 The Drexel Experience 1.0 Math elective 3.0-4.0 Foreign language course 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 260 Classical Social Theory 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 ANTH 370 Ethnographic Methods 3.0 Lab Science elective 3.0 Humanities/Fine Arts elective | | | 14.0-15.0 |
| ANTH 110 The Human Past 3.0 ENGL 102 Persuasive Writing and Reading 3.0 UNIV 101 The Drexel Experience 1.0 Math elective 3.0-4.0 Foreign language course 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 260 Classical Social Theory 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 ANTH 370 Ethnographic Methods 3.0 Lab Science elective 3.0 Humanities/Fine Arts elective | | | |
| ENGL 102 Persuasive Writing and Reading 3.0 UNIV 101 The Drexel Experience 1.0 Math elective 3.0-4.0 Foreign language course 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 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 5 Credits ANTH 370 Ethnographic Methods 3.0 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Humanities/Fine Art | | | Credits |
| UNIV 101 The Drexel Experience | | 1110 11011110111 1 0001 | |
| Math elective 3.0-4.0 Foreign language course 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 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Humanities/Fine Arts elective 3.0 Huma | | | |
| Foreign language course | <u>UNIV 101</u> | • | _ |
| 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 210 Introduction to Sociology 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term Credits 15.0 | | | 3.0-4.0 |
| Term 3 Credits ANTH 390 Seminar in Ethnography 3.0 ENGL 103 Analytical Writing and Reading 3.0 SOC 260 Introduction to Sociology 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 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term Credits 15.0 Term Seminar in Ethnography 3.0 LING 102 < | | | |
| ANTH 390 Seminar in Ethnography 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 Term Credits 15.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 330 Seminar in E | | Term Credits | 14.0-15.0 |
| ANTH 390 Seminar in Ethnography 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 Term Credits 15.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 330 Seminar in E | Term 3 | | Credits |
| 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 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits Term Credits Term Credits Cre | | Seminar in Ethnography | |
| 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 330 Seminar in Ethnography 3.0 LING 102 Language and Society 3. | | <u> </u> | |
| 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 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 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 Humanities/Fine Arts 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 102 Language and Society 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 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | | | |
| 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 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term Credits 3.0 ANTH 310 Societies in Transition 3.0 ANTH 390 Seminar in Ethnography 3.0 LING 102 Language and Society 3.0 | 000 210 | | |
| ANTH 215 Anthropology of Gender 3.0 COM 150 Mass Media and Society 3.0 COM 220 Introduction to Communication 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | | Term Oreans | 13.0 |
| COM 150 Mass Media and Society 3.0 COM 220 Introduction to Communication 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | Term 4 | | Credits |
| COM 220 Introduction to Communication 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | ANTH 215 | Anthropology of Gender | 3.0 |
| Lab Science elective 3.0 Humanities/Fine Arts 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | COM 150 | Mass Media and Society | 3.0 |
| Humanities/Fine Arts 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 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 Credits 3. | COM 220 | Introduction to Communication | 3.0 |
| Term Credits ANTH 370 Ethnographic Methods 3.0 COM 210 Theory and Models of Communication 3.0 SOC 250 Research Methods I 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | | Lab Science elective | 3.0 |
| 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 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | - | Humanities/Fine Arts elective | 3.0 |
| ANTH 370 Ethnographic Methods COM 210 Theory and Models of Communication 3.0 SOC 250 Research Methods I Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 390 Seminar in Ethnography LING 102 Language and Society 3.0 | | Term Credits | 15.0 |
| ANTH 370 Ethnographic Methods COM 210 Theory and Models of Communication 3.0 SOC 250 Research Methods I Lab Science elective 3.0 Humanities/Fine Arts elective 3.0 Term Credits 15.0 Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 390 Seminar in Ethnography LING 102 Language and Society 3.0 | T F | | One dite |
| COM 210Theory and Models of Communication3.0SOC 250Research Methods I3.0Lab Science elective3.0Humanities/Fine Arts elective3.0Term Credits15.0Term 6CreditsANTH 310Societies in Transition3.0ANTH 390Seminar in Ethnography3.0LING 102Language and Society3.0 | | Ethyanyayhia Mathada | |
| SOC 250 Research Methods I 3.0 Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | | <u> </u> | |
| Lab Science elective 3.0 Humanities/Fine Arts 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 102 Language and Society 3.0 | | • | |
| Humanities/Fine Arts 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 102 Language and Society 3.0 | <u>30C 230</u> | | |
| Term CreditsTerm 6CreditsANTH 310Societies in Transition3.0ANTH 390Seminar in Ethnography3.0LING 102Language and Society3.0 | | | |
| Term 6 Credits ANTH 310 Societies in Transition 3.0 ANTH 390 Seminar in Ethnography 3.0 LING 102 Language and Society 3.0 | | | |
| ANTH 310Societies in Transition3.0ANTH 390Seminar in Ethnography3.0LING 102Language and Society3.0 | | Term Credits | 15.0 |
| ANTH 310Societies in Transition3.0ANTH 390Seminar in Ethnography3.0LING 102Language and Society3.0 | Term 6 | | Credits |
| ANTH 390 Seminar in Ethnography 3.0 LING 102 Language and Society 3.0 | - | Societies in Transition | |
| LING 102 Language and Society 3.0 | | | |
| | | <u> </u> | |
| | | <u> </u> | |

| | 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 |
| | Free elective | 4.0 |
| | Anthropology program requirements (See degree requirements) | 6.0 |
| | Term Credits | 13.0 |
| | | |
| Term 9 | | Credits |
| | Anthropology program requirements (See degree | 6.0 |
| | requirements) | 0.0 |
| | Free electives | 6.0 |
| | Term Credits | 12.0 |
| | | |
| Term 10 | | Credits |
| <u>ANTH 410</u> | Cultural Theory | 3.0 |
| <u>COM 355</u> | Ethnography of Communication | 3.0 |
| | Anthropology program requirements (See degree | 6.0 |
| | requirements) | |
| | Free electives | 6.0 |
| | Term Credits | 18.0 |
| _ | | |
| Term 11 | | Credits |
| | Anthropology program requirements (See degree | 6.0 |
| | requirements) | |
| | Social and Behavioral Sciences elective | 3.0-4.0 |
| | Free electives | 12.0 |
| | Term Credits | 21.0-22.0 |
| Term 12 | | Credits |
| ANTH 390 | Seminar in Ethnography | 3.0 |
| AITTI 330 | Anthropology program requirement (See degree | 3.0 |
| | requirements) | 3.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | Tomi Ground | 10.0 |
| | Total Credits (minimum) | 182.0-185.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Biological Sciences

About the Major

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

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

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

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

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

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

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

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

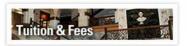
Four-year option without co-op experience: The degree can be completed in four years without co-op/internship employment. Students are not required to pursue studies during any of the summer terms.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Combined Bachelors/Masters Degree

Qualified students can take graduate courses in their junior and senior years for undergraduate or graduate credit. They can also complete a combined BS /MS degree in five years. Further questions about the BS /MS degree program should be directed to the departmental graduate advisor:

Susan Cole Arfuso

Graduate Advisor Bioscience and Biotechnology

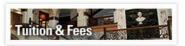
coless@drexel.edu











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Biological Sciences

Bachelor of Science: 181.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

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

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

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

Requirements

| Humanities and Social Sciences | | 33.0 Credits | |
|--------------------------------|--------------------------------|--------------|-----|
| ENGL 101 | Expository Writing and Reading | | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| COM 230 | Techniques of Speaking | | 3.0 |
| COM 310 WI | Technical Writing | | 3.0 |
| PHIL 251 | Ethics | | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Humanities and | social sciences electives | 9.0 | |
| Science, technol elective* | ogy, and human affairs | 3.0 | |

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

Mathematics and Statistics

18.0 Credits

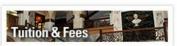
| One of the following math sequences: | | |
|--------------------------------------|-----------------------------------|-----|
| MATH 101 | Introduction to Analysis I | 4.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | | |
| MATH 121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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Physical Sciences

42.0 Credits

| CHEM 101 | General Chemistry I | 3.5 |
|----------|---------------------------------|-----|
| CHEM 102 | General Chemistry II | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 244 | Organic Chemistry I Laboratory | 3.0 |
| CHEM 245 | Organic Chemistry Laboratory II | 3.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| PHYS 154 | Introductory Physics III | 4.0 |
| | | |

Core Biology Courses

36.0 Credits

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

Free electives

24.0 - 26.0 Credits

Concentration Courses

28.0 - 30.0 Credits

Students select one of five concentration and fulfill the requirements, as outlined below.

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

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

Cell/Molecular/Genetics/Biochemistry (CMGB) Concentration requirements

13.0 Credits

| BIO 214 | Principles of Cell Biology | 3.0 |
|---------|----------------------------|-----|
| BIO 244 | Genetics | 3.0 |
| BIO 444 | Human Genetics | 3.0 |
| BIO 270 | Developmental Biology | 3.0 |
| BIO 311 | Biochemistry | 4.0 |
| | | |

Cell/Molecular/Genetics/Biochemistry (CMGB) Concentration electives

12.0 Credits

2 Cell/Molecular/Genetics/Biochemistry (CMGB) electives*

- 1 Organismal/Physiology elective**
- 1 Evolutionary Bio/Ecology elective***

Concentration Laboratory courses

4.0 Credits

2 Laboratory electives+

*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 231, BIO 244, BIO 314, BIO 318, BIO 331, BIO 332, BIO 346, BIO 404, BIO 413, BIO 415, BIO 421, BIO 430, BIO 433, BIO 444, BIO 445, BIO 447, BIO 451, BIO 462, BIO 463, BIO 465 (BIO 498 Independent Study by permission of the department).

- **Organismal/Physiology electives: BIO 201, BIO 221, BIO 223, BIO 254, BIO 256, BIO 260, BIO 284, BIO 310, BIO 322, BIO 368, BIO 370, BIO, 386, BIO 412, BIO 420, BIO 426, ENVS 392.
- *** Evolutionary Bio/Ecology electives: ENVS 230, ENVS 270, ENVS 271, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 330, ENVS 336, ENVS 338, ENVS 360, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 441, ENVS 476, ENVS 477, ENVS 520, PBHL 401.
- +Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 271, BIO 306, BIO 313, BIO 387, BIO 406, BIO 427, ENVS 285, ENVS 287, ENVS 336, ENVS 365, ENVS 382, ENVS 383, ENVS 388 (BIO 497 Research by permission of the department).

Focus Areas

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

| BIO 421 | Biomembranes | 3.0 |
|---------|----------------------------|-----|
| BIO 462 | Biology of Neuron Function | 3.0 |

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

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

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

Students select 1 of the following *Cell Biology* options:

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

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

| BIO 447 | Advanced Genetics & Molecular Biology | 3.0 |
|---------|---------------------------------------|-----|
| | | |

Students select 1 of the following Molecular Biology options

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

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

| BIO 404 | Structure and Function of Biomolecules | 4.0 |
|---------|--|-----|
| | | |

Students interested in *Biochemistry* select 1 of the following options:

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

2, The Organismal Biology/Physiology Concentration

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

Organismal Biology/Physiology Concentration requirements 14.0 Credits

| BIO 214 | Principles of Cell Biology | 3.0 |
|---------------|--|-----|
| or BIO 311 | Biochemistry | 4.0 |
| BIO 201 | Human Physiology I | 4.0 |
| BIO 254 | Invertebrate Morphology and Physiology | 3.0 |
| BIO 203 | Human Physiology II | 4.0 |

Students select 1 of the following options:

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

Organismal Biology/Physiology Concentration Concentration electives

12.0 Credits

1 Cell / Molecular / Genetics / Biochemistry (CMGB) elective*

2 Organismal/Physiology electives**

1 Evolutionary Bio/Ecology elective***

Concentration Laboratory courses

4.0 Credits

2 Laboratory electives+

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

**Organismal/Physiology electives: BIO 201,BIO 203, BIO 221, BIO 223, BIO 254, BIO 256, BIO 262, BIO 264, BIO 284, BIO 310, BIO 320, BIO 322, BIO 368, BIO 370, BIO, 386, BIO 412, BIO 420, BIO 424, BIO 426, BIO 435, BIO 466, ENVS 321, ENVS 392, ENVS 436, ENVS 437, PBHL 401.

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

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

Focus Areas

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

Human Physiology options:

| BIO 221 | Microbiology | 3.0 |
|---------|------------------------|-----|
| BIO 223 | Parasitology | 3.0 |
| BIO 264 | Ethnobotany | 3.0 |
| BIO 284 | Biology of Stress | 3.0 |
| BIO 320 | Microbial Pathogenesis | 3.0 |
| BIO 368 | Embryology | 4.0 |
| BIO 370 | Teratology | 3.0 |
| BIO 386 | Gross Anatomy* | 3.0 |
| BIO 412 | Biology of Aging | 3.0 |
| BIO 420 | Virology | 3.0 |
| BIO 424 | Microbial Physiology | 5.0 |
| BIO 426 | Immunology* | 3.0 |
| BIO 435 | Advanced Immunology | 3.0 |
| | | |

| BIO 466 | Endocrinology | 4.0 |
|----------|-----------------------------|-----|
| ENVS 321 | Environmental Health | 3.0 |
| ENVS 436 | Principles of Toxicology I | 3.0 |
| ENVS 437 | Principles of Toxicology II | 3.0 |

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

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

Organismal Biology options:

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

3. The Ecology/Evolutionary Biology/Paleobiology Concentration

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

Ecology/Evolutionary

Biology/Paleobiology Concentration requirements

13.0 Credits

3.0

Students choose 3 additional Ecology/Evolutionary

Biology/Paleobiologycourses from the

list of options below:

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

Ecology/Evolutionary

Biology/Paleobiology concentration electives

12.0 Credits

Cell/Molecular/Genetics/Biochemistry (CMGB) elective*

1 Organismal/Physiology elective**

2 Evolutionary Bio/Ecology electives***

Concentration Laboratory courses

4.0 Credits

2 Laboratory electives+

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

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

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

+Laboratory electives: BIO 202, BIO 215, BIO 222, BIO 255, BIO 256, BIO 306, BIO 313, BIO 333, BIO 387, BIO 406, BIO 427, BIO 449, ENVS 285, ENVS 287, ENVS 327, ENVS 336, ENVS 365, (BIO 497 Research by permission of the department).

Focus Areas

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

Ecology options

| ENVS 322 | Tropical Ecology | 3.0 |
|----------|-------------------------------|-----|
| ENVS 324 | Microbial Ecology | 3.0 |
| ENVS 330 | Aquatic Ecology | 3.0 |
| ENVS 336 | Terrestrial Ecology | 5.0 |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| ENVS 364 | Animal Behavior | 3.0 |
| ENVS 390 | Marine Ecology | 3.0 |
| ENVS 410 | Physiological Ecology | 3.0 |
| ENVS 412 | Biophysical Ecology | 3.0 |
| ENVS 413 | Advanced Population Ecology | 3.0 |
| ENVS 414 | Advanced Community Ecology | 3.0 |
| ENVS 520 | Field Methods in Paleoecology | 3.0 |
| | | |

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

Evolutionary Biology options

| ENVS 271 | Dinosaurs and Their World | 3.0 |
|----------|-------------------------------|-----|
| ENVS 272 | Physical Geology | 4.0 |
| ENVS 338 | Biodiversity and Conservation | 3.0 |

| ENVS 375 | Invertebrate Paleontology | 4.0 |
|----------|---------------------------|-----|
| ENVS 476 | Paleobotany | 3.0 |
| ENVS 477 | Vertebrate Paleontology | 3.0 |
| ENVS 465 | Advanced Evolution | 5.0 |

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

Paleobiologyy options

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

4. The Pathobiology Concentration

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

Pathobiology Concentration requirements

12.0 Credits

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

| Ecology/Evo | lutionary | |
|--------------|-----------|---------------|
| Biology/Pale | obiology | concentration |
| electives | | |

12.0 Credits

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

Concentration Laboratory courses

4.0 Credits

2 Laboratory electives+

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

**Organismal/Physiology electives: BIO 201, BIO 221, BIO 223, BIO 284, BIO 322, BIO 368, BIO 370, BIO 386, BIO 412, BIO 420, BIO 424, BIO 435, BIO 466, ENVS 321, ENVS 436, ENVS 437. PBHL 401.

^{***} Evolutionary Bio/Ecology electives: ENVS 230, ENVS 270, ENVS 271, ENVS

284, ENVS 286, ENVS 322, ENVS 323, ENVS 330, ENVS 336, ENVS 338, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 441, ENVS 476, ENVS 477, ENVS 520.

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

5. The General Biology Concentration

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

General Biology Concentration Electives

24.0 Credits

| 2 or 3 Cell/Molecular/Genetics/ (CMGB) electives* | Biochemistry |
|---|-------------------|
| 2 or 3 Organismal/Physic | plogy electives** |
| 2 or 3 Evolutionary Bio/E electives*** | Ecology |
| Concentration Laboratory courses | 4.0 Credits |

2 Laboratory electives+

*Cell/Molecular/Genetics/Biochemistry (CMGB) electives: BIO 214, BIO 231, BIO 244, BIO 270, BIO 311, BIO 314, BIO 318, BIO 331, BIO 332, BIO 346, BIO 404, BIO 413, BIO 415, BIO 421, BIO 430, BIO 433, BIO 444, BIO 445, BIO 447, BIO 449, BIO 451, BIO 462, BIO 465, ENVS 326 (BIO 498 Independent Study by permission of the department).

**Organismal/Physiology electives: BIO 201, BIO 203, BIO 221, BIO 223, BIO 254, BIO 256, BIO 260, BIO 262, BIO 264, BIO 284, BIO 310, BIO 320, BIO 322, BIO 368, BIO 370, BIO, 386, BIO 412, BIO 420, BIO 424, BIO 426, BIO 435, BIO 466, ENVS 321, ENVS 392, ENVS 436, ENVS 437, PBHL 401.

*** Evolutionary Bio/Ecology electives: ENVS 230, ENVS 270, ENVS 271, ENVS 272, ENVS 284, ENVS 286, ENVS 322, ENVS 323, ENVS 324, ENVS 330, ENVS 336, ENVS 338, ENVS 360, ENVS 364, ENVS 375, ENVS 382, ENVS 383, ENVS 388, ENVS 390, ENVS 410, ENVS 412, ENVS 413, ENVS 414, ENVS 441, ENVS 442, ENVS 476, ENVS 477, ENVS 520.

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

Noe about laboratory credits: BIO 256, BIO 449, ENVS 336, ENVS 382 and ENVS 388 have both a lecture and laboratory component.

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Recommended Plan Of Study

BS Biological Sciences, Co-Op General Biology Concentration 4 YR UG Co-op Concentration

| Term 1 | | Credits |
|-----------------|--|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| <u>MATH 101</u> | Introduction to Analysis I | 4.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| | Calculus II | 4.0 |
| or | | 410 |
| | Introduction to Analysis II | 4.0 |
| | Term Credits | 18.0 |
| | | |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| COOP 101 | Career Management/Professional Development | 0.0 |
| | Analytical Writing and Reading | 3.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | | |
| MATH 123 | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| BIO 219 | Techniques in Molecular Biology | 2.5 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| | Term Credits | 14.5 |
| | | |
| Term 5 | | Credits |
| BIO 218 | Principles of Molecular Biology | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 244 | Organic Chemistry Laboratory I | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| | Term Credits | 15.0 |
| | | |
| Term 6 | | Credits |
| BIO 224 | Form, Function & Evolution of Vertebrates | 4.0 |

| BIO 225 | Vertebrate Bio & Evolution Lab | 2.0 |
|-----------------|---|---------|
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 245 | Organic Chem Lab II | 3.0 |
| PHYS 154 | Introductory Physics III | 4.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| PHIL 251 | Ethics | 3.0 |
| | Free elective | 3.0 |
| | Science, Technology and Human Affairs elective (See degrees | 3.0 |
| | requirements list) | |
| | BIO/ENVS elective | 3.0 |
| | Biology laboratory requirement course (See degree requirements) | 2.0 |
| | Term Credits | 14.0 |
| Term 8 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 410 | · · · · · · · · · · · · · · · · · · · | 3.0 |
| <u>WATH 410</u> | | 3.0 |
| | Biology laboratory requirement course (See degree requirements) | 2.0 |
| | BIO/ENVS elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| Term 9 | | Credits |
| COM 310 | Technical Communication | 3.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 10 | | Credits |
| BIO 471 | Seminar in Biological Sciences | 2.0 |
| | BIO/ENVS electives | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 14.0 |
| Term 11 | | Credits |
| BIO 472 | Seminar in Biological Science | 2.0 |
| | Free elective | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| , | BIO/ENVS electives | 6.0 |
| | Term Credits | 14.0 |
| Term 12 | | Credits |
| BIO 473 | Seminar in Biological Science | 2.0 |
| | Free electives | 6.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Term Credits | 14.0 |
| | Total Credits (minimum) | 181.0 |
| | rotar orealia ullillillillilli | 101. |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

BS Biological Sciences, General Biology Concentration 5 YR UG Co-op Concentration

| Term 1 | | Credits |
|-----------------|---|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| <u>MATH 101</u> | Introduction to Math Analysis I | 4.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Math Analysis II | 4.0 |
| | Term Credits | 18.0 |
| | | |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| COOP 101 | Career Managment/Professional Development | 0.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | | |
| MATH 123 | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| _ | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| BIO 219 | Techniques in Molecular Biology | 2.5 |
| | Organic Chemistry I | 4.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| | Term Credits | 14.5 |
| Term 5 | | Credits |
| BIO 218 | Principles of Molecular Biology | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 244 | Organic Chemistry Laboratory I | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| | Term Credits | 15.0 |
| | | |
| Term 6 | | Credits |
| CHEM 243 | Organic Chemistry III | 3.0 |

| CHEM 245 | Organic Chem Lab II | 3.0 |
|--------------------|---|-------------|
| PHYS 154 | Introductory Physics III | 4.0 |
| | Science, Technology and Human Affairs elective (See degrees | 3.0 |
| | requirements list) | |
| | BIO/ENVS elective | 3.0 |
| | Term Credits | 16.0 |
| | | . |
| Term 7 | Farms Franction 0 Frankiska of Wartsharten | Credits |
| BIO 224 BIO 225 | Form, Function & Evolution of Vertebrates Vertebrate Bio & Evolution Lab | 4.0 |
| PHIL 251 | Ethics | 2.0 3.0 |
| PHIL 231 | Free elective | 3.0 |
| | Humanities/Social Science elective | |
| | Term Credits | 3.0 15.0 |
| | Term Credits | 10.0 |
| Term 8 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 410 | | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Biology laboratory requirement course (See degree | |
| | requirements) | 2.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| | | |
| Term 9 | | Credits |
| COM 310 | Technical Communication | 3.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |
| | Biology laboratory requirement course (See degree | 2.0 |
| | requirements) | |
| | BIO/ENVS elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| T 40 | | 0 |
| Term 10 BIO 471 | Comings in Dialogical Coionea | Credits |
| <u> </u> | Seminar in Biological Science BIO/ENVS electives | 2.0 |
| | Free electives | 6.0 |
| | Term Credits | 6.0 14.0 |
| | Term Credits | 14.0 |
| Term 11 | | Credits |
| BIO 472 | Seminar in Biological Science | 2.0 |
| | Free elective | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS electives | 6.0 |
| | Term Credits | 14.0 |
| | | |
| Term 12 | | Credits |
| BIO 473 | Seminar in Biological Science | 2.0 |
| | Free electives | 6.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Term Credits | 14.0 |
| | | |
| | Total Credits (minimum) | 191 (|

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

BS Biological Sciences, Non-Co-Op General Biology Concentration 4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|---|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| <u>MATH 101</u> | Introduction to Analysis I | 4.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| CHEM 102 | General Chemistry II | 4.5 |
| ENGL 102 | · | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 122 | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Analysis II | 4.0 |
| | Term Credits | 18.0 |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| | General Chemistry III | 5.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | mathematics for the Life Sciences | 4.0 |
| | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| BIO 219 | Techniques in Molecular Biology | 2.5 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| | Term Credits | 14.5 |
| Term 5 | | Credits |
| BIO 218 | Principles of Molecular Biology | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 244 | Organic Chemistry Laboratory I | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| | Term Credits | 15.0 |
| | Tom Cround | 10.0 |
| Term 6 | | Credits |
| BIO 224 | Form, Function & Evolution of Vertebrates | 4.0 |
| BIO 225 | Vertebrate Bio & Evolution Lab | 2.0 |

| | Organic Chemistry III | 3.0 |
|--------------------|---|-------------|
| CHEM 245 | Organic Chem Lab II | 3.0 |
| PHYS 154 | Introductory Physics III | 4.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 410 | Scientific Data Analysis I | 3.0 |
| MATTI 410 | Science, Technology and Human Affairs elective (See degrees | 3.0 |
| | requirements list) | 3.0 |
| | Free elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 8 | | Credits |
| <u>COM 310</u> | Technical Communication | 3.0 |
| <u>MATH 411</u> | Scientific Data Analysis II | 3.0 |
| | Free elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Biology laboratory requirement course (See degree requirements) | 2.0 |
| | Term Credits | 14.0 |
| | | |
| Term 9 | | Credits |
| PHIL 251 | Ethics | 3.0 |
| | Biology laboratory requirement course (See degree requirements) | 2.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| Torm 10 | | Cradita |
| Term 10 BIO 471 | Comings in Dialogical Coiones | Credits |
| <u> </u> | Seminar in Biological Science | 2.0 |
| | BIO/ENVS electives Free electives | 6.0 |
| | Term Credits | 6.0 14.0 |
| | Term Credits | 14.0 |
| Term 11 | | Credits |
| BIO 472 | Seminar in Biological Science | 2.0 |
| | Free elective | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS electives | 6.0 |
| | Term Credits | 14.0 |
| Taum 40 | | One al!! = |
| Term 12 BIO 473 | Seminar in Biological Science | Credits 2.0 |
| <u> </u> | Free electives | |
| - | | 6.0 |
| | Humanities/Social Science elective | 3.0 |
| | BIO/ENVS elective | 3.0 |
| | Term Credits | 14.0 |
| | Total Credits (minimum) | 181.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Chemistry

About the Major

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

Each student plans a course of study and selects electives in consultation with an advisor in the Chemistry Department. Students who show initiative and laboratory ability are encouraged to select a research problem and/or other advanced courses in chemistry during the junior and senior years.

Most graduate courses in chemistry are open to qualified seniors. Prerequisites and descriptions of available graduate courses appear in the graduate catalog.

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



The Bachelor's/Master's (BS/MS) dual degree program is an accelerated program providing the academically qualified student with an opportunity to earn both a BS and an MS degree (two diplomas are awarded) in five years, the time normally required to finish the co-op option BS degree alone.

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

Eligibility

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

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

Application Process

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

Requirements

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

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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Chemistry

Bachelor of Arts Degree: 184.0 quarter credits

Degree Requirements

Incoming students, 2011/2012 Chemistry requirements Mathematics requirements

| General education requirements* | | | 44.0 Credits |
|---------------------------------|--------------------------------|-----|--------------|
| ENGL 101 | Expository Writing and Reading | | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Humanities a | and arts electives | 6.0 | |
| International | studies electives | 6.0 | |
| Social and be | ehavioral studies electives | 6.0 | |
| Studies in div | versity electives | 6.0 | |
| Language re | quirements courses | 8.0 | |

50.5 Credits

| CHEM 101 | General Chemistry I | 3.5 |
|-------------|----------------------------------|-----|
| CHEM 102 | General Chemistry II | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| CHEM 230 | Quantitative Analysis | 3.0 |
| CHEM 231 WI | Quantitative Analysis Laboratory | 2.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 244 | Organic Chemistry Laboratory I | 3.0 |
| CHEM 245 | Organic Chemistry Laboratory II | 3.0 |
| CHEM 253 | Thermodynamics & Kinetics | 4.0 |
| CHEM 270 | Software Skills for Chemists | 3.0 |
| CHEM 357 WI | Physical Chemistry I Laboratory | 2.5 |
| CHEM 367 | Chemical Information Retrieval | 3.0 |
| CHEM 421 | Inorganic Chemistry I | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

6.0 Credits

Chemistry electives**

6.0

Biology requirements

13.5 Credits

| BIO 122 | Cells and Genetics | 4.5 |
|---------|-----------------------------------|-----|
| BIO 124 | Evolutionand Organismal Diversity | 4.5 |
| BIO 126 | Physiology and Ecology | 4.5 |

16.0 Credits

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

Physics requirements

12.0 Credits

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

Free electives

41.0 - 53.0 Credits

| Free electives | 41.0 - 53.0 |
|----------------|-------------|
| | |

* Categories of Electives:

Humanities and arts electives

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

International electives

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

Social and behavioral studies electives

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

Studies in diversity electives

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

Language requirement

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

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

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel University
Copyright © 2011. All rights reserved.

Recommended Plan Of Study

BA Chemistry
4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|--|------------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 16.0 |
| T 0 | | One all to |
| Term 2 | F 1 (1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Credits |
| BIO 124 | Evolution & Organismal Diversity | 4.5 |
| - | General Chemistry II | 4.5 |
| ENGL 102 | | 3.0 |
| | Calculus II | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| | Term Credits | 18.0 |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| | Analytical Writing and Reading | 3.0 |
| | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| | | |
| Term 4 | | Credits |
| | Quantitative Analysis | 3.0 |
| | Quantitative Analysis Laboratory | 2.0 |
| | Organic Chemistry I | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| Term 5 | | Credits |
| | Organic Chemistry II | 4.0 |
| | Organic Chemistry Laboratory I | 3.0 |
| PHYS 101 | | 4.0 |
| | Chemistry elective | 3.0 |
| | Term Credits | 14.0 |
| | | |
| Term 6 | | Credits |
| CHEM 243 | <u> </u> | 3.0 |
| CHEM 245 | | 3.0 |
| PHYS 102 | Fundamentals of Physics II | 4.0 |
| | Free elective | 3.0 |
| | Humanities elective | 3.0 |
| | Term Credits | 16.0 |

| Term 7 | | Credits |
|-----------------|---|---------|
| CHEM 253 | Thermodynamics & Kinetics | 4.0 |
| CHEM 367 | Chemical Information Retrieval | 3.0 |
| CHEM 421 | Inorganic Chemistry I | 3.0 |
| PHYS 201 | Fundamentals of Physics III | 4.0 |
| | Term Credits | 14.0 |
| Term 8 | | Credits |
| CHEM 270 | Software Skills for Chemists | 3.0 |
| CHEM 357 | Physical Chemistry Lab I | 2.5 |
| | International studies elective | 3.0 |
| | Diversity studies elective | 3.0 |
| | Language course | 4.0 |
| | Term Credits | 15.5 |
| Term 9 | | Credits |
| | Humanities elective | 3.0 |
| | Diversity studies elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Language course | 4.0 |
| | International studies elective | 3.0 |
| | Term Credits | 16.0 |
| Term 10 | | Credits |
| | Social and Behavioral Sciences elective | 3.0 |
| | Free electives | 12.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| | Chemistry elective | 3.0 |
| | Free electives | 12.0 |
| | Term Credits | 15.0 |
| Term 12 | | Credits |
| | Free electives | 12.0 |
| | Term Credits | 12.0 |
| | Total Credits (minimum) | 184.0 |

<u>Home</u>

Contents

<u>Index</u>

<u>Email</u>

Search Feedback

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Chemistry

Bachelor of Science Degree: 190.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

| General education requirements | | 24.0 Credits | |
|--------------------------------|--------------------------------|--------------|-----|
| ENGL 101 | Expository Writing and Reading | | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Technical electives* | | 6.0 | |
| Liberal studies electives* | | 6.0 | |

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

| Chemistry requirements | | 90.5 Credits |
|------------------------|----------------------------------|--------------|
| CHEM 101 | General Chemistry I | 3.5 |
| CHEM 102 | General Chemistry II | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| CHEM 230 | Quantitative Analysis | 3.0 |
| CHEM 231 WI | Quantitative Analysis Laboratory | 2.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 244 | Organic Chemistry Laboratory I | 3.0 |
| CHEM 245 | Organic Chemistry Laboratory II | 3.0 |
| CHEM 253 | Thermodynamics & Kinetics | 4.0 |
| CHEM 270 | Software Skills for Chemists | 3.0 |
| CHEM 346 | Qualitative Organic Chemistry | 5.5 |
| CHEM 355 | Physical Chemistry IV | 3.0 |
| CHEM 357 WI | Physical Chemistry Lab I | 2.5 |
| CHEM 358 | Physical Chemistry Lab II | 2.5 |
| CHEM 359 | Atomic/Molecular Spectroscopy | 3.0 |
| CHEM 367 | Chemical Information Retrieval | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| CHEM 420 | Molecular Symmetry and Group Theory Applied to Chemistry | 3.0 |
|-------------|---|-----|
| CHEM 421 | Inorganic Chemistry I | 3.0 |
| CHEM 422 | Inorganic Chemistry II | 3.0 |
| CHEM 425 | Inorganic Chemistry Laboratory | 4.0 |
| CHEM 430 | Analytical Chemistry I | 3.0 |
| CHEM 431 WI | Analytical Chemistry II | 4.0 |
| CHEM 493 | Senior Research Project | 9.0 |
| | | |

| Biology requirements | | 7.5 Credits | |
|----------------------|----------------------------|-------------|--|
| BIO 122 | Cells and Genetics | 4.: | |
| BIO 214 | Principles of Cell Biology | 3.0 | |

Biochemistry requirements

6.0 Credits

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

Biochemistry lecture options:

| BIO 404 | Structure and Function of Biomolecules | 4.0 |
|---------------|--|-----|
| or BIO 311 | Biochemistry | 4.0 |

Biochemistry laboratory options:

| BIO 306 | Biochemistry Laboratory | 2.0 |
|---------------|---------------------------------------|-----|
| or BIO 406 | Computational Biochemistry Laboratory | 2.0 |

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

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

Free electives 30.0 Credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel University
Copyright © 2011. All rights reserved.

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|-------------------------------------|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| | Calculus I | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| | Calculus II | 4.0 |
| | Fundamentals of Physics I | 4.0 |
| UNIV 101 | | |
| UNIV IUI | The Drexel Experience Term Credits | 2.0 |
| | Term Creats | 17.5 |
| Term 3 | | Credits |
| CHEM 103 | General Chemistry III | 5.0 |
| | Analytical Writing and Reading | 3.0 |
| | Calculus III | 4.0 |
| | Fundamentals of Physics II | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| | Quantitative Analysis | 3.0 |
| | Quantitative Analysis Laboratory | 2.0 |
| | Organic Chemistry I | 4.0 |
| | Multivariate Calculus | 4.0 |
| PHYS 201 | Fundamentals of Physics III | 4.0 |
| | Term Credits | 17.0 |
| | | 0 111 |
| Term 5 | Oursels Observators II | Credits |
| | Organic Chemistry II | 4.0 |
| | Organic Chemistry Laboratory I | 3.0 |
| | Differential Equations | 4.0 |
| or MATH 201 | Linear Algebra | 4.0 |
| | Free electives | 6.0 |
| | Term Credits | 17.0 |
| | | |
| Term 6 | | Credits |
| BIO 214 | Principles of Cell Biology | 3.0 |
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 245 | <u> </u> | 3.0 |
| CHEM 253 | Thermodynamics & Kinetics | 4.0 |

| | Free elective | 3.0 |
|-----------------|--|---------|
| | Term Credits | 16. |
| | | |
| Term 7 | | Credits |
| CHEM 270 | Software Skills for Chemists | 3.0 |
| CHEM 357 | Physical Chemistry Lab I | 2. |
| | Free electives | 6.0 |
| | Technical elective (200+ level, see degree requirements) | 3.0 |
| | Term Credits | 14. |
| | | |
| Term 8 | | Credits |
| CHEM 355 | Physical Chemistry IV | 3.0 |
| | Chemical Information Retrieval | 3.0 |
| | Inorganic Chemistry I | 3.0 |
| | Analytical Chemistry I | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| | Atomic/Molecular Spectroscopy | 3.0 |
| | Molecular Symmetry and Group Theory-Chemistry | 3.0 |
| | Analytical Chemistry II | 4.0 |
| | Technical elective (200+ level, see degree requirements) | 3.0 |
| | Term Credits | 13.0 |
| | Tomi Ground | 701 |
| Term 10 | | Credits |
| CHEM 346 | Qualitative Organic Chemistry | 5.5 |
| CHEM 358 | Physical Chemistry Lab II | 2.5 |
| CHEM 493 | Senior Research Project | 3.0 |
| BIO 404 | Structure and Function of Biomolecules | 4.0 |
| or | off dotate and 1 direction of Biomolecules | 7.0 |
| BIO 311 | Biochemistry | 4.0 |
| | Liberal studies elective | 3.0 |
| | Term Credits | 18.0 |
| | | |
| Term 11 | | Credits |
| CHEM 493 | Senior Research Project | 3.0 |
| BIO 406 | Computational Biochemistry Lab | 2.0 |
| or | | |
| BIO 306 | Biochemistry Laboratory | 2.0 |
| | Free electives | 6.0 |
| | Liberal studies elective | 3.0 |
| | 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 electives | 6.0 |
| | Term Credits | 16.0 |
| | | |
| | Total Credits (minimum) | 190.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

BS Chemistry, 4-Year Non-Co-Op 4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|--|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| CHEM 102 | General Chemistry II | 4.5 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| PHYS 101 | Fundamentals of Physics I | 4.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| | Term Credits | 17.5 |
| Term 3 | | Credits |
| CHEM 103 | General Chemistry III | 5.0 |
| | Analytical Writing and Reading | 3.0 |
| | Calculus III | 4.0 |
| PHYS 102 | Fundamentals of Physics II | 4.0 |
| | Term Credits | 16.0 |
| Term 4 | | Credits |
| CHEM 230 | Quantitative Analysis | 3.0 |
| | Quantitative Analysis Laboratory | 2.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| PHYS 201 | Fundamentals of Physics III | 4.0 |
| | Term Credits | 17.0 |
| Term 5 | | Credits |
| CHEM 242 | Organic Chemistry II | 4.0 |
| | Organic Chemistry Laboratory I | 3.0 |
| | Differential Equations | 4.0 |
| or | | |
| MATH 201 | Linear Algebra | 4.0 |
| | Free electives | 6.0 |
| | Term Credits | 17.0 |
| Term 6 | | Credits |
| CHEM 243 | Organic Chemistry III | 3.0 |
| CHEM 245 | | 3.0 |
| | Free electives | 6.0 |
| - | Technical elective (200+ level, see degree requirements) | 3.0 |
| | | |

| | Term Credits | 15.0 |
|-----------------|--|---------|
| | | 0 " |
| Term 7 | TI 1 0 1/2 4' | Credits |
| | Thermodynamics & Kinetics | 4.0 |
| | Chemical Information Retrieval | 3.0 |
| | Inorganic Chemistry I | 3.0 |
| | Analytical Chemistry I | 3.0 |
| BIO 214 | Principles of Cell Biology | 3.0 |
| | Term Credits | 16.0 |
| Term 8 | | Credits |
| | Software Skills for Chemists | 3.0 |
| | Physical Chemistry Lab I | 2.5 |
| | Molecular Symmetry and Group Theory-Chemistry | 3.0 |
| | Analytical Chemistry II | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.5 |
| | Tom Ordans | 10.0 |
| Term 9 | | Credits |
| | Technical elective (200+ level, see degree requirements) | 3.0 |
| | Liberal studies elective | 3.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | | |
| Term 10 | | Credits |
| CHEM 346 | Qualitative Organic Chemistry | 5.5 |
| CHEM 355 | Physical Chemistry IV | 3.0 |
| CHEM 493 | Senior Research Project | 3.0 |
| BIO 404 | Structure and Function of Biomolecules | 4.0 |
| or | | |
| BIO 311 | Biochemistry | 4.0 |
| | Term Credits | 15.5 |
| | | |
| Term 11 | | Credits |
| <u>CHEM 359</u> | Atomic/Molecular Spectroscopy | 3.0 |
| <u>CHEM 493</u> | Senior Research Project | 3.0 |
| BIO 406 | Computational Biochemistry Laboratory | 2.0 |
| or BIO 306 | Biochemistry Laboratory | 2.0 |
| <u> </u> | Liberal studies elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| | Term Oreans | 14.0 |
| Term 12 | | Credits |
| CHEM 358 | Physical Chemistry Lab II | 2.5 |
| CHEM 422 | Inorganic Chemistry II | 3.0 |
| CHEM 425 | | 4.0 |
| CHEM 493 | Senior Research Project | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.5 |
| | | 10.0 |
| | Total Credits (minimum) | 190.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Communication

About the Curriculum

The Culture and Communication department offers a major in Communication, with concentrations in Corporate and Public Relations, Technical and Science Communication, and Global Journalism.

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.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Communication: Corporate and Public Relations Concentration

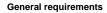
Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

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.



68.0 - 80.0 Credits

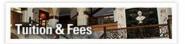
| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3.0 |
|---|--|-----------|
| COM 150 | Mass Media and Society | 3.0 |
| COM 360 | International Communication | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| PSY 101 | General Psychology | 3.0 |
| UNIV 101 | The Drexel Experience | 3.0 |
| Two Mathematics courses | | 6.0-8.0 |
| Two Science courses | | 6.0-8.0 |
| Foreign language courses* | | 8.0 -16.0 |
| Three Humanities/ Fine Arts courses | | 9.0 |
| One Social/Behavioral Sciences course | | 3.0 |
| One International Studies elective | | 3.0 |
| Two Studies in Diversity electives | | 6.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Communication core requirements

39.0 Credits

Theory Sequence

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

Methods Sequence

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

Additional Core Requirements

| Techniques of Speaking | 3.0 |
|---|--|
| New Technologies in Communication | 3.0 |
| Special Studies in Communications Theory | 3.0 |
| Senior Project in Communication I | 3.0 |
| Senior Project in Communication II | 3.0 |
| Communication Ethics | 3.0 |
| | New Technologies in Communication Special Studies in Communications Theory Senior Project in Communication I Senior Project in Communication II |

| Corporate and Public Relations concentration requirements | 12.0 Credits |
|---|--------------|
| | |

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

Other program requirements 14.0 Credits

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

One of the following Visual Communication courses*:

| COM 335 | Electronic Publishing | 3.0 |
|---------|-----------------------|-----|
| COM 340 | Desktop Publishing | 3.0 |

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

Additional Electives

| Communication electives (Any four courses with a COM or LING rubric at the 200-level or higher) | 12.0 |
|--|----------------------|
| Culture electives (Any two courses with a SOC, ANTH or CJ rubric. At least one course must be at the 200-level or higher.) | 6.0 |
| Free electives | 31.0 credits or less |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|--|-----------|
| COM 101 | Human Communication | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| | Mathematics course | 3.0-4.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 13.0-14.0 |
| 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 |
| | Option to take additional foreign language course | 4.0 |
| | Mathematics course | 3.0-4.0 |
| | Term Credits | 16.0-17.0 |
| Term 4 | | Credits |
| COM 210 | Theory and Models of Communication | 3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Option to take additional foreign language course | 4.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at | 3.0 |
| | least 1 must be 200-level or higher) | 5.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 16.0-17.0 |
| Term 5 | | Credits |
| COM 220 | Introduction to Communication Research | 3.0 |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 240 | New Technologies In Commununication | 3.0 |
| COM 260 | Fundamentals of Journalism | 3.0 |
| PSY 101 | General Psychology I | 3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Term Credits | 18.0-19.0 |
| Term 6 | | Credits |
| COM 281 | Advanced Public Relations | 3.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | | 3.0 |

| | Diversity studies elective | 3.0 |
|-----------------|---|---------|
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 7 | | Credits |
| COM 282 | Public Relations Writing | 3.0 |
| COM 360 | International Communication | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher) | 3.0 |
| | International studies elective | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 19.0 |
| Term 8 | | Credits |
| ORGB 300 | Organizational Behavior | 4.0 |
| PHIL 305 | Communication Ethics | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |
| LING 102 or | Language and Society | 3.0 |
| LING 101 | Introduction to Linguistics | 3.0 |
| | Visual communications elective (See degree requirements for list) | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 9 | | Credits |
| MKTG 301 | Introduction to Marketing Management | 4.0 |
| | Free elective | 3.0 |
| | Communication elective (Any COM or LING course at 200-level or higher) | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 13.0 |
| Term 10 | | Credits |
| COM 380 | Special Topics in Communication Theory | 3.0 |
| COM 400 | Seminar in Communication | 3.0 |
| <u>COM 400</u> | Communication elective (Any COM or LING course at 200- | 3.0 |
| | level or higher) | 3.0 |
| | Free electives | 6.0 |
| | Term Credits | 15.0 |
| _ | | |
| Term 11 | | Credits |
| COM 491 | Senior Project in Communication I | 3.0 |
| | Communication elective (Any COM or LING course at 200-level or higher) | 3.0 |
| | Free electives | 6.0 |
| | International studies elective | 3.0 |
| | Term Credits | 15.0 |
| Term 12 | | Credits |
| COM 492 | Senior Project in Communication II | 3.0 |
| | Communication elective (Any COM or LING course at 200- | |
| | level or higher) | 3.0 |
| | Free electives | 13.0 |
| | Term Credits | 19.0 |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Communication: Corporate and Public Relations Concentration

Bachelor of Science Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

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.



| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3.0 |
|----------|---|-----|
| 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 |
| PSY 101 | General Psychology | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| UNIV 101 | The Drexel Experience | 3.0 |
| | Political Science (PSCI) elective | 4.0 |
| | Economics elective | 4.0 |
| | Two History electives | 6.0 |
| | Two English (ENGL) electives (200-level or above) | 6.0 |
| | Fine Arts elective | 3.0 |
| | Philosophy elective | 3.0 |

One of the following Science sequences:

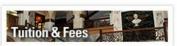
| BIO 107 | Cells, Genetics and Physiology | 3.0 |
|---------|---|-----|
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 110 | Biological Diversity, Ecology and | 1.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

48

| | Evolution Lab | |
|----------------------|---|--------------|
| or | | |
| CHEM 111 CHEM 112 | General Chemistry I General Chemistry II | 4.0 4.0 |
| or | | |
| PHYS 103 PHYS 104 | General Physics I General Physics II | 4.0 4.0 |
| One of the follo | wing Math sequences: | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| or | | |
| MATH 121 MATH 122 | Calculus I Calculus II | 4.0 |
| | Surday II | 4.0 |
| Communication | core requirements | |
| Theory Sequen | ce | |
| COM 101 | Human Communication | 3.0 |
| COM 210 | Theory and Models of Communication | 3.0 |
| COM 400 | Seminar in Communication | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| Methods Seque | ence | |
| COM 220 | Qualitative Research Methods | 3.0 |
| SOC 250 | Research Methods | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |
| Additional Core | Requirements | |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 240 | New Technologies in Communication | 3.0 |
| COM 380 | Special Studies in Communications Theory | 3.0 |
| COM 491 | Senior Project in Communication I | 3.0 |
| COM 492 | Senior Project in Communication II | 3.0 |
| PHIL 305 | Communication Ethics | 3.0 |
| Corporate and I | Public Relations equirements | 26.0 Credits |
| COM 260 WI | Fundamentals of Journalism | 3.0 |
| COM 280 | Public Relations | 3.0 |
| OOIVI 200 | i upile i telations | 3.0 |

| COM 281 | Advanced Public Relations | 3.0 |
|------------|---------------------------|-----|
| COM 282 WI | Public Relations Writing | 3.0 |

Other program requirements

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

One of the following Visual Communication courses*:

3.0

| COM 335 | Electronic Publishing | 3.0 |
|---------|-----------------------|-----|
| COM 340 | Desktop Publishing | 3.0 |

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

Additional Electives

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

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Recommended Plan Of Study

BS Communication, Corporate and Science
5 YR UG Co-op Concentration /Corporate & Public Relations

| Term 1 | | Credits |
|-----------------|--|---------|
| COM 101 | Human Communication | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Math Analysis | 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 |
| PSY 101 | General Psychology I | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 122 | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Math Analysis | 4.0 |
| | History elective | 3.0 |
| | Term Credits | 18.0 |
| | | |
| 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 |
| | Political Science (PSCI) elective | 4.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at | 2.0 |
| | least 1 must be 200-level or higher) | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| COM 210 | Theory and Models of Communication | 3.0 |
| | Fine arts elective | 3.0 |
| | English literature course 200-level or above | 3.0 |
| | Science sequence course 1 (See degree requirements list) | 4.0 |
| | Term Credits | 13.0 |
| | | |
| 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 |
| | Communication elective (Any COM or LING course at 200- | 2.0 |
| | level or higher) | 3.0 |
| | Science sequence course 2 (See degree requirements list) | 4.0 |
| | Term Credits | 16.0 |

| Term 6 | | Credits |
|--------------------|--|---------|
| COM 281 | Advanced Public Relations | 3.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| | Economics (ECON) elective | 4.0 |
| | Free elective | 3.0 |
| | History elective | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 7 | | Credits |
| COM 240 | New Technologies in Communication | 3.0 |
| COM 282 | Public Relations Writing | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Philosophy (PHIL) elective | 3.0 |
| | Free electives | 6.0 |
| | Term Credits | 19.0 |
| | | |
| Term 8 | | Credits |
| ORGB 300 | 9.9um_um_um | 4.0 |
| PHIL 305 | Communication Ethics | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis | 3.0 |
| <u>LING 102</u> | Language and Society | 3.0 |
| or | | |
| <u>LING 101</u> | Introduction to Linguistics | 3.0 |
| | Visual communications elective (See degree requirements for | 3.0 |
| | list) | |
| | Term Credits | 16.0 |
| Tarm 0 | | Cuadita |
| Term 9 MKTG 301 | Introduction to Marketing Management | Credits |
| MICTO 301 | | 4.0 |
| | English literature course 200-level or above Free elective | 3.0 |
| | Communication elective (Any COM or LING course at 200- | 3.0 |
| | level or higher) | 3.0 |
| | Term Credits | 13.0 |
| | Term Oreans | 75.0 |
| Term 10 | | Credits |
| COM 380 | Special Topics in Communication Theory | 3.0 |
| COM 400 | Seminar in Communication | 3.0 |
| <u> </u> | Free elective | 3.0 |
| | Communication elective (Any COM or LING course at 200- | 5.0 |
| | level or higher) | 3.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at | |
| | least 1 must be 200-level or higher) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| COM 491 | Senior Project in Communication I | 3.0 |
| | Free electives | 7.0 |
| | Communication elective (Any COM or LING course at 200- | |
| | level or higher) | 3.0 |
| | Term Credits | 13.0 |
| | | |
| Term 12 | | Credits |
| COM 492 | Senior Project in Communication II | 3.0 |
| | Free electives | 12.0 |
| | Term Credits | 15.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Communication: Global Journalism Concentration

Bachelor of Arts Degree: 182.0 quarter credits

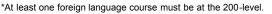
Degree Requirements

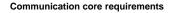
Incoming students, 2011/2012

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

| General requirements | 68.0-80.0 |
|----------------------|-----------|

| ANTH 101 | Cultural Diversity: Introduc Anthropology | ction to Cultural | 3.0 |
|-------------------------|--|-------------------|-----|
| ANTH 110 | The Human Past: An Intro Physical Anthropology and Archaeology | | 3.0 |
| COM 150 | Mass Media and Society | | 3.0 |
| COM 345 | Intercultural Communication | on | 3.0 |
| or ANTH 312 | Approaches to Intercultura | al Behavior | |
| COM 360 | International Communicati | ion | 3.0 |
| ENGL 101 | Expository Writing and Re | eading | 3.0 |
| ENGL 102 | Persuasive Writing and Re | eading | 3.0 |
| ENGL 103 | Analytical Writing and Rea | ading | 3.0 |
| SOC 101 | Introduction to Sociology | | 3.0 |
| PSY 101 | General Psychology | | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Two Mathemat | ics courses | 6.0-8.0 | |
| Two Science co | ourses | 6.0-8.0 | |
| Foreign langua | ge courses* | 8.0- 16.0 | _ |
| Three Humanit | ies and Fine Arts electives | 9.0 | |
| One Social and elective | Behavioral Sciences | 3.0 | |
| One Internation | nal Studies elective | 3.0 | |
| One Studies in | Diversity elective | 3.0 | |
| | | | |





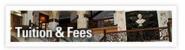
42.0 Credits











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Theory Sequence

| COM 101 | Human Communication | 3.0 |
|---|--|---|
| COM 210 | Theory and Models of Communication | 3.0 |
| COM 400 | Seminar in Communication | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| Methods Seque | ence | |
| COM 220 | Qualitative Research Methods | 3.0 |
| SOC 250 | Research Methods | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |
| Additional Core | Requirements | |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 240 | New Technologies in Communication | 3.0 |
| COM 380 | Special Studies in Communication Theory | 3.0 |
| COM 491 | Senior Project in Communication I | 3.0 |
| COM 492 | Senior Project in Communication II | 3.0 |
| PHIL 305 | Opposition Fabrica | 3.0 |
| | Communication Ethics sm concentration | 21.0 Credits |
| | sm concentration | |
| COM 260 WI | sm concentration Fundamentals of Journalism | 21.0 Credits |
| COM 260 WI | sm concentration Fundamentals of Journalism Public Relations | 21.0 Credits 3.0 3.0 |
| COM 260 WI COM 280 COM 300 WI | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism | 21.0 Credits 3.0 3.0 3.0 |
| COM 260 WI COM 280 COM 300 WI COM 315 WI | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism | 3.0 3.0 3.0 3.0 |
| COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law | 3.0 3.0 3.0 3.0 3.0 |
| COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism | 3.0 3.0 3.0 3.0 3.0 3.0 |
| Global Journalise requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law | 3.0 3.0 3.0 3.0 3.0 |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing | 3.0 3.0 3.0 3.0 3.0 3.0 |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program I | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing | 21.0 Credits 3.0 3.0 3.0 3.0 3.0 3.0 6.0-7.0 credits |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program in the company of the | sm concentration Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing requirements Introduction to Linguistics | 21.0 Credits 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3. |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program I LING 101 or LING 102 Select one courlist: | Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing requirements Introduction to Linguistics Language and Society | 21.0 Credits 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3. |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program I LING 101 or LING 102 Select one cour list: PSCI 150 | Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing requirements Introduction to Linguistics Language and Society rese from the following | 21.0 Credits 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3. |
| requirements COM 260 WI COM 280 COM 300 WI COM 315 WI COM 365 COM 390 WI TVPR 220 Other program I LING 101 or LING 102 Select one cour | Fundamentals of Journalism Public Relations On-Line Journalism Investigative Journalism Journalists, the Courts, and the Law Global Journalism TV News Writing requirements Introduction to Linguistics Language and Society rese from the following International Politics | 21.0 Credits 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3. |

Additional Electives

| Communication electives (Any three courses with a COM rubric at the 200-level or higher.) | 9.0 | |
|--|------------|--|
| Culture electives (Any two courses with a SOC, ANTH or CJ rubric. At least one course must be at the 200-level or higher.) | 6.0 | |
| Free electives | 20.0 -33.0 | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel University
Copyright © 2011. All rights reserved.

Recommended Plan Of Study

BA Communication, Global Journalism
5 YR UG Co-op Concentration /Global Journalism

| Term 1 | | Credits |
|-----------------|---|-----------|
| COM 101 | Human Communication | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| | Math elective | 3.0-4.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 13.0-14.0 |
| Term 3 | | Credits |
| COM 260 | Fundamentals of Journalism | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| ANTH 110 | | 3.0 |
| or | | - |
| <u>ANTH 101</u> | Introduction to Cultural Diversity | 3.0 |
| | Foreign language course | 4.0 |
| | Math elective | 3.0-4.0 |
| | Term Credits | 16.0-17.0 |
| | | |
| Term 4 | | Credits |
| COM 210 | Theory and Models of Communication | 3.0 |
| LING 102 or | Language and Society | 3.0 |
| LING 101 | Introduction to Linguistics | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Foreign language course | 4.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher) | 3.0 |
| | Term Credits | 16.0 |
| Term 5 | | Credits |
| COM 220 | Qualitative Research Methods | 3.0 |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 240 | New Technologies In Commununication | 3.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Term Credits | 15.0-16.0 |
| | | |
| Term 6 | | Credits |
| SOC 250 | Research Methods I | 3.0 |
| | | |

| TVPR 220 | TV News Writing | 3.0 |
|-------------------|---|----------------|
| COM 345 or | Intercultural Communication | 3.0 |
| | Approaches to Intercultural Behavior | 3.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at least 1 must be 200-level or higher) | 3.0 |
| | Science elective (See degree requirements) | 3.0 |
| | Term Credits | 15.0 |
| T 7 | | One dite |
| Term 7 COM 280 | Public Relations | Credits 3.0 |
| COM 300 | On-line Journalism | 3.0 |
| PSY 101 | General Psychology I | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Diversity studies elective | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 19.0 |
| | | |
| Term 8 | | Credits |
| SOC 364 | Computer-Assisted Data Analysis | 3.0 |
| | International Business Law | 4.0 |
| or COM 362 | International Negotiations | 3.0 |
| or | international Negotiations | 3.0 |
| SOC 340 or | Globalization | 3.0 |
| PSCI 150 or | International Politics | 4.0 |
| IAS 359 | Culture and Values | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Free elective | 3.0 |
| | Communication elective (Any COM or LING course at 200- | 3.0 |
| | level or higher) | |
| | Term Credits | 16.0 |
| Torm 0 | | Cradita |
| Term 9 COM 315 | Investigative Journalism | Credits 3.0 |
| COM 360 | International Communication | 3.0 |
| | Communication elective (Any COM or LING course at 200- | |
| | level or higher) | 3.0 |
| | International studies elective | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| COM 365 | Journalists, the Courts, and the Law | 3.0 |
| COM 380 | Special Topics in Communication Theory | 3.0 |
| COM 390 | Global Journalism | 3.0 |
| | Free electives | 3.0-6.0 |
| | Term Credits | 12.0-15.0 |
| Term 11 | | Credits |
| COM 400 | Seminar in Communication | 3.0 |
| COM 491 | Senior Project in Communication I | 3.0 |
| PHIL 305 | Communication Ethics | 3.0 |
| | Free electives | 6.0 |
| | Torm Cradits | 15 (|

| Term 12 | | Credits |
|---------|--|-------------|
| COM 492 | Senior Project in Communication II | 3.0 |
| | Free electives | 9.0 |
| | Communication elective (Any COM or LING course at 200-level or higher) | 3.0 |
| | Term Credits | 15.0 |
| | Total Credits (minimum) | 182.0-188.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Communication: Technical and Science Communication Concentration

Bachelor of Science Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

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

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

General requirements

63.0 Credits

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

One of the following Science sequences:

| CHEM 111 | General Chemistry I | 4.0 |
|----------|---|-----|
| or | | |
| BIO 110 | Biological Diversity, Ecology and Evolution Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 107 | Cells, Genetics and Physiology | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| or | | |
|---|---|-------------------------|
| PHYS 103 | General Physics I | 4.0 |
| PHYS 104 | General Physics II | 4.0 |
| One of the follo | owing Math sequences: | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| or | | |
| ЛАТН 121 ЛАТН 122 | Calculus I Calculus II | 4.0 4.0 |
| | | |
| Communication | n core requirements | 36.0 Credits |
| Theory Sequen | ice | |
| COM 101 | Human Communication | 3.0 |
| COM 210 | Theory and Models of Communication | 3.0 |
| COM 400 | Seminar in Communication | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| Methods Seque | ence | |
| COM 220 | Qualitative Research Methods | 3.0 |
| SOC 250 | Research Methods | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |
| Additional Core | e 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 |
| | Communication Ethics Science concentration | 3.0 24.0 Credits |
| echnical and sequirements | | |
| Fechnical and sequirements | Science concentration | 24.0 Credits |
| Technical and | Science concentration Public Relations | 24.0 Credits |
| Fechnical and sequirements COM 280 COM 310 WI COM 320 WI | Science concentration Public Relations Technical Communication | 24.0 Credits 3.0 3.0 |
| Fechnical and sequirements COM 280 COM 310 WI | Science concentration Public Relations Technical Communication Science Writing | 3.0 3.0 3.0 |

CHEM 112

General Chemistry II

4.0

| COM 380 | Special Studies in Communication Theory | 3.0 |
|---------|--|-----|
| COM 420 | Technical Editing | 3.0 |

| Other program requirements | | 12.0 Credits |
|----------------------------|--|--------------|
| HIST 280 | History of Science I | 3.0 |
| or HIST 281 | History of Science II | |
| or HIST 285 | Technology in Historical Perspective | |
| LING 101 | Introduction to Linguistics | 3.0 |
| or LING 102 | Language and Society | |
| ENGL 300 WI | Literature and Science | 3.0 |
| or ENGL 302 | Literature and the Environment | |
| or PHIL 361 | Philosophy of Science | |
| PSY 330 | Cognitive Psychology | 3.0 |
| or PSY 337 | The Psychology of Human-Computer Interaction | 3.0 |

Additional Electives

| Communication electives (Any four courses with a COM rubric at the 200-level or higher) | 12.0 | |
|---|------|--|
| Culture electives (Any two courses with a SOC, ANTH, or CJ rubric. At least one course must be at the 200-level or higher.) | 6.0 | |
| Free electives | 29.0 | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Recommended Plan Of Study

BS Communication, Technical and Science

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

| Term 1 | | Credits |
|-----------------|--|------------|
| COM 101 | Human Communication | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Math Analysis I | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 102 | | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Math Analysis II | 4.0 |
| | Term Credits | 11.0 |
| | | |
| Term 3 | | Credits |
| <u>CS 161</u> | Introduction to Computing | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PSCI 100 | Introduction to Political Science | 4.0 |
| ANTH 110 | Human Past: Anthropology and Prehistoric Archeology | 3.0 |
| or | . 5 | |
| <u>ANTH 101</u> | Introduction to Cultural Diversity | 3.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at | 3.0 |
| | least 1 must be 200-level or higher) | 3.0 |
| | Fine arts elective | 3.0 |
| | Political Science (PSCI) elective | 4.0 |
| | Term Credits | 23.0 |
| Term 4 | | Credits |
| COM 220 | Introduction to Communication Research | 3.0 |
| | Philosophy (PHIL) elective | 3.0 |
| | Science elective (See degree requirements) | 4.0 |
| | History elective | 3.0 |
| | Communication elective (Any COM or LING course at 200- | |
| | level or higher) | 3.0 |
| | Term Credits | 16.0 |
| Term 5 | | Credits |
| COM 230 | Techniques of Speaking | |
| COM 240 | New Technologies In Commununication | 3.0 3.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| ENGL 300 | Literature & Science | |
| LINGL 300 | Literature & Science | 3.0 |

| or | District of Orleans | 0.0 |
|--------------------|--|-------------|
| PHIL 361 | Philosophy of Science | 3.0 |
| Or ENGL 202 | Environmental Literature | 3.0 |
| ENGL 302 | Science elective (See degree requirements) | 4.0 |
| | Term Credits | 16.0 |
| | Tomi Ground | 70.0 |
| Term 6 | | Credits |
| COM 280 | Public Relations | 3.0 |
| COM 335 | Electronic Publishing | 3.0 |
| | Economics (ECON) elective | 4.0 |
| | Culture elective (Any course with SOC, ANTH or CJ rubric: at | 2.0 |
| | least 1 must be 200-level or higher) | 3.0 |
| | English (ENGL) elective | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 7 | | Credits |
| COM 320 | Science Writing | 3.0 |
| COM 340 | Desktop Publishing | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Communication elective (Any COM or LING course at 200- | 3.0 |
| | level or higher) | |
| | Free electives | 6.0 |
| | Term Credits | 16.0 |
| Term 8 | | Credits |
| COM 210 | Theory and Models of Communication | |
| COM 310 | Technical Communication | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| HIST 280 | History of Science I | 3.0 |
| or | nistory of Science i | 3.0 |
| HIST 281 | History of Science II | 3.0 |
| or | notery or colonics in | 0.0 |
| HIST 285 | Technology in Historical Perspective | 3.0 |
| LING 101 | Introduction to Linguistics | 3.0 |
| or | - | |
| LING 102 | Language and Society | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| COM 350 | Message Design and Evaluation | 3.0 |
| COM 420 | Technical Editing | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |
| | Free elective | 3.0 |
| | History (HIST) elective | 3.0 |
| | Term Credits | 15.0 |
| Taum 40 | | Credite |
| Term 10 COM 380 | Special Topics in Communication Theory | Credits 3.0 |
| PSY 337 | | |
| or | The Psychology of Human-Computer Interaction | 3.0 |
| PSY 330 | Cognitive Psychology | 3.0 |
| | Free electives | 6.0 |
| | Communication elective (Any COM or LING course at 200- | |
| | level or higher) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| COM 400 | Seminar in Communication | 3.0 |

| COM 491 | Senior Project in C | Commu | nication I | | | | 3.0 |
|--------------------|---|----------|-------------|-----------|------------|--------|---------------------|
| PHIL 305 | Communication Et | hics | | | | | 3.0 |
| | Communication ele | ective (| Any COM or | LING cour | se at 200- | | 3.0 |
| | Free elective | | | | | | 3.0 |
| | Term Credits | | | | | | 15.0 |
| Term 12 COM 492 | Senior Project in C Free electives Term Credits | Commu | nication II | | | | 3.0 11.0 14.0 |
| | Total Credits (mini | mum) | | | | | 187.0 |
| dated: May | 31, 04:06 pm | Home | Contents | Index | Email | Search | Feedba |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Criminal Justice

About the Major

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

About the Curriculum

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

Program Goals

The goals for the criminal justice program include the following:

- To provide excellent, cutting edge preparation for students planning to enter graduate study of criminal justice, law and law-related programs.
- To prepare students for upper level employment in the criminal justice system at local, state and federal levels.
- To communicate an understanding of crime, criminal behavior and the criminal justice system essential for aware citizens, as voters, taxpayers, planners and decision-makers.

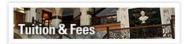
For additional information about the BS in Criminal Justice, visit the Culture and Communication Department's Criminal Justice page.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Criminal Justice

Bachelor of Science Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

| General requirements | | 56.0 Credits |
|------------------------------|---|--------------|
| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3.0 |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PHIL 101 | Introduction to Western Philosophy | 3.0 |
| PSCI 100 | Introduction to Political Science | 4.0 |
| PSY 101 | General Psychology | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| UNIV 101 | The Drexel Experience | 3.0 |
| Fine Arts elective | e 3.0 | |
| History elective | 3.0 | |
| English elective (200-level) | (any ENGL course over 3.0 | |
| | | |

One of the following math sequences:

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

One of the following science sequences:

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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| Criminal Justice | 61.0 -67.0 Credits | |
|------------------------|---|-----------|
| Justice Sequen | се | |
| BLAW 342 | Criminal Law | 4.0 |
| CJ 204 | Criminology | 3.0 |
| CJ 206 | Criminal Justice | 3.0 |
| CJ 276 | Computer Crime | 3.0 |
| CJ 277 | Correctional Practices | 3.0 |
| CJ 278 | Law Enforcement | 3.0 |
| CJ 360 | Juvenile Justice | 3.0 |
| CJ 374 WI | Restorative Justice | 3.0 |
| CJ 375 | Criminal Procedure | 3.0 |
| CJ 376 | Sentencing and Punishment | 3.0 |
| CJ 390 WI | Internship in Criminal Justice | 0.0 - 6.0 |
| CJ 400 WI | Critical Issues in Criminal Justice | 3.0 |
| PHIL 330 | Ethical Issues in Criminal Justice | 3.0 |
| Writing/Commu | nication Sequence | |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 375 WI | Grant Writing | 3.0 |
| Theory Sequen | ce | |
| SOC 260 WI | Classical Social Theory | 3.0 |
| SOC 460 WI | | |
| | Contemporary Social Theory | 3.0 |
| PSCI 329 | Contemporary Social Theory Theories of Justice | 3.0 |
| PSCI 329 Methods Seque | Theories of Justice | |
| | Theories of Justice | |
| Methods Seque | Theories of Justice | 3.0 |

Criminal Justice Specialization Courses

24.0-25.0 Credits

Students select eight of the following courses:

Forensics

| CJ 265 | Criminal Investigation | 3.0 |
|---------|---------------------------|-----|
| CJ 369 | Forensic Science Survey | 3.0 |
| CJ 378 | Study of Forensic Science | 3.0 |
| CJ 379 | Forensic DNA Analysis | 3.0 |
| PSY 370 | Forensic Psychology | 3.0 |

Cybercrime

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

Crime and Procedures

| CJ 266 | Crime Prevention Planning | 3.0 |
|----------|--|-----|
| CJ 267 | Introduction to Security Studies | 3.0 |
| CJ 275 | Issues in Domestic Violence | 3.0 |
| CJ 280 | Communities and Crime | 3.0 |
| CJ 282 | Community Policing | 3.0 |
| CJ 289 | Terrorism | 3.0 |
| CJ 290 | Crime and Public Policy | 3.0 |
| CJ 372 | Death Penalty | 3.0 |
| CJ 373 | Environmental Crimes | 3.0 |
| BLAW 348 | White Collar Crime | 4.0 |
| PSCI 220 | Constitutional Law I: Separation of Powers | 3.0 |
| PSCI 365 | Politics, Law & Justice | 3.0 |

Other Social Science Electives

15.0 Credits

Students select four of the following courses:

| SOC 115 | Social Problems | 3.0 |
|----------|---------------------------------------|-----|
| SOC 120 | Sociology of the Family | 3.0 |
| SOC 220 | Wealth and Power | 3.0 |
| SOC 240 | Urban Sociology | 3.0 |
| SOC 320 | Sociology of Deviance | 3.0 |
| CJ 380 | Special Topics in Criminal Justice | 3.0 |
| CJ 399 | Independent Study in Criminal Justice | 3.0 |
| SOC 380 | Special Topics in Sociology | 3.0 |
| PSCI 363 | Constitutional Law II | 3.0 |
| PSCI 366 | Supreme Court and American Politics | 3.0 |

Students select one of the following courses:

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

| Electives | | 19.0-25.0 Credits | |
|-----------|----------------|-------------------|--|
| | Free electives | 19.0 -25.0 | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

BS Criminal Justice
4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|---|---------|
| CJ 206 | Criminal Justice | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| CHEM 111 | General Chemistry I | 4.0 |
| or | · | |
| BIO 107 | Cells, Genetics & Physiology and BIO 108 Lab | 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 |
| PHIL 101 | Introduction to Western Philosophy | 3.0 |
| SOC 115 | Social Problems | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| CHEM 112 | General Chemistry II | 4.0 |
| or | · | |
| BIO 109 | Biological Diversity, Ecology & Evolution and BIO 110 Lab | 4.0 |
| | Term Credits | 18.0 |
| | | |
| Term 3 | | Credits |
| ANTH 101 | Introduction to Cultural Diversity | 3.0 |
| CJ 204 | Criminology | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PSCI 100 | Introduction to Political Science | 4.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| CJ 277 | Introduction to Correctional Practices | 3.0 |
| COM 220 | Qualitative Research Methods | 3.0 |
| | History elective | 3.0 |
| | Criminal Justice specialization courses (See degree | |
| | requirements for list) | 6.0 |
| | Term Credits | 15.0 |
| | | |
| Term 5 | | Credits |
| CJ 278 | Introduction to Law Enforcement | 3.0 |
| CJ 360 | Juvenile Justice | 3.0 |
| COM 230 | Techniques of Speaking | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Math Analysis | 4.0 |
| | Term Credits | 16.0 |

| ierm 6 | | Credits |
|---------------------|---|----------------|
| CJ 276 | Introduction to Computer Crime | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| or | | 4.0 |
| MATH 102 | Introduction to Math Analysis | 4.0 |
| | English (ENGL) course 200-level or above | 3.0 |
| | Other social science elective (See degree requirements) Term Credits | 3.0 16.0 |
| | Term Credits | 10.0 |
| Term 7 | | Credits |
| CJ 375 | Criminal Procedure | 3.0 |
| CJ 390 | Internships in Criminal Justice | 3.0 |
| COM 375 | Grant Writing | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Fine arts elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 8 | | Credits |
| CJ 374 | Restorative Justice | 3.0 |
| PSCI 329 | Theories of Justice | 3.0 |
| PSY 101 | General Psychology I | 3.0 |
| SOC 320 | Sociology of Deviant Behavior | 3.0 |
| | Other social science elective (See degree requirements) | 3.0 |
| | Term Credits | 15.0 |
| Term 9 | | Credits |
| SOC 460 | Contemporary Social Theory | 3.0 |
| ANTH 312 | Approaches to Intercultural Behavior | 3.0 |
| or | Approunted to intercultural Behavior | 0.0 |
| SOC 210 | Race and Ethnic Relations | 3.0 |
| or | | |
| COM 345 | Intercultural Communication | 3.0 |
| | Criminal Justice specialization courses (See degree | 6.0 |
| | requirements for list) | |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| Taum 10 | | Cradita |
| Term 10 BLAW 342 | Criminal Law | Credits 4.0 |
| CJ 376 | Sentencing: The History, Necessity and Morality of | 4.0 |
| 00 370 | Punishment in America | 3.0 |
| PHIL 330 | Ethical Issues in Criminal Justice | 3.0 |
| | Other social science elective (See degree requirements) | 3.0 |
| | Term Credits | 13.0 |
| | | |
| Term 11 | | Credits |
| | Free electives | 6.0 |
| | Criminal Justice specialization courses (See degree | 9.0 |
| | requirements for list) | 9.0 |
| | Term Credits | 15.0 |
| | | |
| Term 12 | | Credits |
| <u>CJ 400</u> | Critical Issues in Criminal Justice | 3.0 |
| | Criminal Justice specialization course (See degree | 3.0 |
| | requirements for list) | |

| | Free electives | | | | | | 5.0 |
|--------------|---|-------------|-----------------|-------|--------------|---------------|----------|
| | Other social science elective (See degree requirements) | | | | | 3.0 | |
| | Term Credits | | | | | 14.0 | |
| | Total Credits (minimum) | | | | | 183.0 | |
| Last Updated | : May 31, 04:06 pm | <u>Home</u> | <u>Contents</u> | Index | <u>Email</u> | <u>Search</u> | Feedback |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

English

About the Major

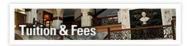
Specifically designed to engage students in critical thinking and applied writing skills, the English major offers a wide-ranging curriculum on British, American and World literatures and stresses the cultural, historical and political contexts that shape and affect literary production. The Department 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.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

J Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

English

Bachelor of Arts Degree : 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

| University requirements | | | 28.0 Credits |
|-----------------------------|-----------------------------|---------|--------------|
| ENGL 101 | Expository Writing and Rea | ding | 3.0 |
| ENGL 102 | Persuasive Writing and Rea | ading | 3.0 |
| ENGL 103 | Analytical Writing and Read | ling* | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Two mathemati | cs courses | 6.0-8.0 | |
| Two science courses 6.0-8.0 | | 6.0-8.0 | |
| - | | | |

| College requirements* | 44.0 - 45.0 Credits |
|-----------------------|---------------------|

*Students earning a 4 or 5 on the AP English exam may replace ENGL 103 with an

Foreign language courses

upper-level ENGL course.

Any two (2) consecutive foreign language 8.0 courses (completing level 201)

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 | 3.0 |
| AKTIT 103 | Postmodernism | 5.0 |
| DANC 201 WI | Dance Appreciation | 3.0 |
| DANC 210 | Introduction to Dance | 3.0 |
| DANC 220 | History of Dance | 3.0 |
| DANC 325 WI | 20th-Century Dance History | 3.0 |
| FMST 150 | American Classic Cinema | 3.0 |
| FMST 250 | The Documentary Tradition | 3.0 |
| FMST 355 | Contemporary Cinema | 3.0 |
| FMVD 230 | Basic Filmmaking | 3.0 |
| MUSC 130 | Introduction to Music | 3.0 |
| MUSC 231 WI | Music History I | 3.0 |
| MUSC 232 WI | Music History II | 3.0 |
| MUSC 236 | Rock Music Through the Mid-60s | 3.0 |
| MUSC 238 | Rock Music Since the Mid-60s | 3.0 |
| PHIL 101 | Introduction to Western Philosophy | 3.0 |
| PHIL 105 | Critical Reasoning | 3.0 |
| PHIL 121 | History of Ideas | 3.0 |
| PHIL 211 | Metaphysics | 3.0 |
| PHIL 221 | Epistemology | 3.0 |
| PHIL 231 | Aesthetics | 3.0 |
| PHIL 251 | Ethics | 3.0 |
| PHTO 110 | Basic Photography | 3.0 |
| PHTO 115 | Principles of Photography | 3.0 |
| THTR 115 | Theatrical Experience | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| THTR 221 WI | Theatre History I | 3.0 |
|-------------|--------------------|-----|
| THTR 222 WI | Theatre History II | 3.0 |

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

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

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

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

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

| AFAS 101 | Intellectual/Cultural Foundations of the African-American Experience | 3.0 |
|-------------|--|-----|
| AFAS 201 | African-American Aesthetics | |
| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3.0 |
| ANTH 215 | Anthropology of Gender | 3.0 |
| COM 345 | Intercultural Communication | 3.0 |
| ENGL 345 | American Ethnic Literature | 3.0 |
| ENGL 350 | Jewish Literature and Civilization | 3.0 |
| ENGL 355 WI | Women and Literature | 3.0 |
| ENGL 365 WI | Topics in African American Literature | 3.0 |
| HIST 212 | Themes in African-American History | 3.0 |
| HIST 214 | The Civil Rights Movement in the US | 3.0 |
| HIST 215 | American Slavery | 3.0 |
| HIST 216 | Freedom in America | 3.0 |
| HIST 218 | Race and Film in US History | 3.0 |
| HIST 223 | Women and Work in America | 3.0 |
| HIST 224 | Women in American History | 3.0 |
| HIST 249 | Modern Jewish History | 3.0 |
| JUDA 201 | Jewish Literature and Civilization | 3.0 |
| JUDA 202 | Jewish Life and Culture in the Middle Ages | 3.0 |
| JUDA 203 | Modern Jewish History | 3.0 |
| | | |

| MUSC 333 | Afro-American Music USA | 3.0 |
|----------|--|-----|
| SOC 210 | Race and Ethnic Relations | 3.0 |
| SOC 330 | Developing Nations and the International Division of Labor | 3.0 |
| WMS 101 | Introduction to Women's Studies | 3.0 |
| WMS 240 | Women and Society in a Global Context | 3.0 |
| WMS 250 | African American Herstories | 3.0 |
| | , | |

Major requirements

84.0 Credits

Foundational and professional courses

57.0 Credits

Students complete all of the following required courses:

| ENGL 205 WI | American Literature I | 3.0 |
|-------------|--|-----|
| ENGL 206 WI | American Literature II | 3.0 |
| ENGL 211 WI | British Literature I | 3.0 |
| ENGL 212 | British Literature II | 3.0 |
| ENGL 315 WI | Shakespeare | 3.0 |
| ENGL 380 | Literary Theory | 3.0 |
| ENGL 490 | Seminar in English/American Literature | 4.0 |
| ENGL 492 | Seminar in World Literature | 4.0 |
| ENGL 499 | Senior Project in English | 4.0 |

Students select three (3) of the following:

| ENGL 200 WI | Classical to Medieval Literature | 3.0 |
|-------------|---|-----|
| ENGL 201 | Renaissance to the Enlightenment | 3.0 |
| ENGL 202 WI | Romanticism to Modernism | 3.0 |
| ENGL 203 WI | Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 204 | Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 207 WI | African American Literature | 3.0 |
| ENGL 214 | Readings in Fiction | 3.0 |
| ENGL 215 WI | Readings in Poetry | 3.0 |
| ENGL 216 WI | Readings in Drama | 3.0 |

Students select three (3) of the following:

| ENGL 310 WI | Period Studies | 3.0 |
|-------------|----------------------------|-----|
| ENGL 320 WI | Major Authors | 3.0 |
| ENGL 325 | Topics in World Literature | 3.0 |
| ENGL 330 | The Bible as Literature | 3.0 |
| ENGL 335 | Mythology | 3.0 |

Students select three (3) of the following electives:

| ENGL 305 WI | The Mystery Story | 3.0 |
|-------------|-------------------------------|-----|
| ENGL 306 | Literature of Baseball | 3.0 |
| ENGL 307 | Literature of the Holocausts | 3.0 |
| ENGL 323 | Literature and the Other Arts | 3.0 |

| ENGL 345 | American Ethnic Literature | 3.0 |
|-------------|---------------------------------------|-----|
| ENGL 350 | Jewish Literature and Civilization | 3.0 |
| ENGL 355 WI | Women and Literature | 3.0 |
| ENGL 360 WI | Literature and Society | 3.0 |
| ENGL 365 | Topics in African American Literature | 3.0 |
| ENGL 395 WI | Special Studies in Literature | 3.0 |
| ENGL 399 | Independent Study in English | 3.0 |
| PHIL 381 WI | Philosophy in Literature | 3.0 |

Creative and Professional Writing

Students select five (5) courses, for a total of 15.0 credits. At least two of the courses must be chosen from the first portion of the list (the first 11 courses):

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

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

Science and Technology in the Humanities

12.0 Credits

Students select four (4) of the following:

| ENGL 300 WI | Literature and Science | 3.0 |
|-------------|--------------------------------------|-----|
| ENGL 302 | Literature and the Environment | 3.0 |
| ENGL 303 | Science Fiction | 3.0 |
| ENGL 370 | Topics in Literature and Medicine | 3.0 |
| HIST 280 | History of Science I | 3.0 |
| HIST 281 | History of Science II | 3.0 |
| HIST 285 | Technology in Historical Perspective | 3.0 |
| HIST 292 | Technology in American Life | 3.0 |
| PHIL 311 | Computer Ethics | 3.0 |
| PHIL 315 | Engineering Ethics | 3.0 |
| PHIL 341 | Philosophy of the Environment | 3.0 |
| PHIL 355 | Philosophy of Medicine | 3.0 |
| PHIL 351 | Philosophy of Technology | 3.0 |
| PHIL 361 | Philosophy of Science | 3.0 |
| | | |

Free electives

24.0 - 28.0 Credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104

catalog@drexel.edu •

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 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Math elective | 4.0 |
| | Foreign language course (1st consecutive course) | 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 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| | Foreign language course (2nd consecutive course, 201-level) | 4.0 |
| | Math elective | 4.0 |
| | Term Credits | 16.0 |
| Term 3 | | Credits |
| ANTH 101 | Introduction to Cultural Diversity | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| | Introduction to Music | 3.0 |
| PHIL 101 | Introduction to Western Philosophy | 3.0 |
| PSY 101 | General Psychology I | 3.0 |
| | Term Credits | 15.0 |
| Term 4 | | Credits |
| | American Literature I | 3.0 |
| | British Literature I | 3.0 |
| PHIL 105 | | 3.0 |
| PHIL 103 | Critical Reasoning | |
| | Social and Behavioral Sciences elective | 3.0-4.0 |
| | Lab Science elective | 3.0 |
| | Term Credits | 15.0-16.0 |
| Term 5 | | Credits |
| ENGL 206 | American Literature II | 3.0 |
| ENGL 212 | British Literature II | 3.0 |
| | International studies elective | 3.0 |
| | Lab Science elective | 3.0 |
| | Diversity studies 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 WMST 101 | Race and Ethnic Relations | 3.0 |

| | Introduction to Women's Studies | 3.0 |
|-----------------------|--|-------------|
| | Term Credits | 15.0 |
| Term 7 | | Credits |
| COM 300 | Computer-Assisted Journalism | 3.0 |
| ENGL 207 | • | 3.0 |
| ENGL 216 | Readings in Drama | 3.0 |
| | Free elective | 3.0 |
| | Science, Technology and Human Affairs elective (See degrees requirements list) | 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 Publishing | 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 |
| ENGL 380 | Literary Theory | 3.0 |
| HIST 281 | History of Science II | 3.0 |
| PHIL 361 | Philosophy of Science | 3.0 |
| ENGL 492 | Seminar in World Literature | 4.0 |
| or <u>ENGL 490</u> | Seminar in English/American Literature | 4.0 |
| | Free electives | 3.0 |
| | 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) | 183.0-184.0 |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Environmental Science

About the major

Environmental Science is a multidisciplinary field designed to examine environmental problems and find solutions. This field requires understanding of a number of disciplines, including biology, physics and chemistry. Solving some of our environmental problems also requires knowledge of environmental policy, ethics, and scientific data analysis.

The program has an integrated curricular approach designed around student laboratory investigations. The goal of this program is to give students not only knowledge about biology, but also the ability to use the tools and skills of a scientist. The program includes extensive use of computers in the laboratory, and students make frequent oral and written presentations based on their laboratory projects.

Field experience electives may includes trips to local aquatic and terrestrial habitats such as streams, lakes, the John Heinz National Wildlife Refuge, New Jersey Pine Barrens, Delaware, Barnegat and Chesapeake Bays, and Appalachian Mountains. Students are also encouraged to take advantage of study abroad options. These programs often require early planning so it is advisable for interested students to speak to their advisor about opportunities in their first year.

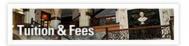
For more information about the program, visit the College's Environmental Science website.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Environmental Science

Bachelor of Science Degree: 184.5 quarter credits

Degree Requirements

Incoming students, 2011/2012

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

| Humanities and Social Science | | 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 |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 310 WI | Technical Communication | 3.0 |
| PHIL 341 | Philosophy of the Environment | 3.0 |
| PHIL 251 | Ethics | |
| UNIV 101 | The Drexel Experience | 3.0 |
| Humanities/Socia | al science electives 6.0 |) |

| Mathematics and Statistics | | 18.0 Credits |
|----------------------------|-----------------------------|--------------|
| MATH 121 | Calculus I | 4.0 |
| MATH 122 | Calculus II | 4.0 |
| MATH 123 | Calculus III | 4.0 |
| or | | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| MATH 239 | Intermediate Calculus | 4.0 |
| MATH 410 | Scientific Data Analysis I | 3.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |

| Physical Sciences | | 36.0 Credits |
|-------------------|-----------------------|--------------|
| CHEM 101 | General Chemistry I | 3.5 |
| CHEM 102 | General Chemistry II | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| CHEM 241 | Organic Chemistry | 4.0 |
| CHEM 242 | Organic Chemistry II | 4.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| CHEM 244 PHYS 152 PHYS 153 PHYS 154 Biological Science BIO 122 BIO 124 | Organic Chemistry I Laboratory Introductory Physics I Introductory Physics II Introductory Physics III | 3.0 4.0 4.0 4.0 23.5 Credits |
|---|---|--|
| PHYS 153 PHYS 154 Biological Science | Introductory Physics II Introductory Physics III | 4.0 |
| PHYS 154 Biological Science | Introductory Physics III | 4.0 |
| Biological Science | | |
| BIO 122 | es | 23.5 Credits |
| | | |
| BIO 124 | Cells and Genetics | 4.5 |
| | Evolution and Organismal Diversity | 4.5 |
| BIO 126 | Physiology and Ecology | 4.5 |
| BIO 217 | Evolution | 4.0 |
| BIO 224 | Form, Function and Evolution of Vertebrates | 4.0 |
| BIO 225 | Vertebrate Biology and Evolution Lab | 4.0 |
| Environmental Sci Requirements | ience Core | 31.0 Credits |
| ENVS 270 | History of Life | 4.0 |
| ENVS 272 | Physical Geology | 4.0 |
| ENVS 284 WI | Physiological and Population Ecology | 3.0 |
| ENVS 285 | Population Ecology Laboratory | 2.0 |
| ENVS 286 | Community and Ecosystem Ecology | 3.0 |
| ENVS 287 | Community Ecology Laboratory | 2.0 |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| ENVS 441 WI | Issues in Global Change I: Seminar | 2.0 |
| ENVS 442 | Issues in Global Change II: Research | 2.0 |
| ENVP 360 | Environmental Movements in America | 3.0 |
| ENVP 365 | Introduction to Environmental Policy Analysis | 3.0 |
| Environmental Sc | ience Electives* | 25.0 Credits |
| Students select 25. | 0 credits from the following options: | |
| BIO 221 | Microbiology | 3.0 |
| BIO 222 | Microbiology Laboratory | 2.0 |
| ECON 201 ECON 202 | Principles of Microeconomics 4.0 Principles of Macroeconomics 4.0 | |
| ECON 351 | Resource and Environmental Economics 4.0 | |
| PHEV 145 | Weather 1: Climate and Global Change | 4.0 |
| | Any Environmental Science courses | var. |
| | | |
| ENVS ENVP | Any Environmental Policy courses | var. |
| ENVS | - | var. |

*Notes about Environmental Science Electives:

■ Field experience electives include quantitative environmental measurements in local aquatic and terrestrial habitats, such as streams, lakes, the Delaware Bay, the Poconos, and the New Jersey Pine Barrens (for example, ENVS 382

- Field Botany: NJ Pine Barrens; ENVS 383 Ecology of the Pine Barrens; ENVS 388 Marine Field Methods).
- Students are required to consult frequently with their academic advisors for curriculum planning. Many of the graduate courses in environmental science are also open to qualified seniors who wish to become familiar with some of the applications in the field. Prerequisites and descriptions of available graduate courses appear in the graduate catalog.
- The Equatorial Guinea: Bioko Island Study Abroad Program offers a unique opportunity for undergraduates and recent graduates to study tropical biodiversity and its conservation, with an emphasis on field work that takes advantage of Bioko Island's pristine rainforests ranging from sea level to over 10,000 feet in altitude, its seven species of rare monkeys and its four species of nesting sea turtles. For more information, please visit the Drexel Study Abroad Office

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel University
Copyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104

catalog@drexel.edu •

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|---|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| | Term Credits | 17.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| CHEM 102 | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Analysis II | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 3 | | Credits |
| BIO 126 | Physioloogy and Ecology | 4.5 |
| | General Chemistry III | 5.0 |
| | | 3.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | | |
| <u>MATH 123</u> | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| _ | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| | Organic Chemistry I | 4.0 |
| ENVS 270 | History of Life on Earth | 4.0 |
| | Humanities/Social Science elective | 3.0 |
| | Term Credits | 15.0 |
| Term 5 | | Credits |
| | Organic Chemistry II | 4.0 |
| CHEM 244 | • | 3.0 |
| ENVS 272 | Physical Geology | 4.0 |
| ENVS 284 | Physiological and Population Ecology | 3.0 |
| ENVS 285 | Population Ecology Lab | 2.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 17.0 |
| | Tom Cround | 17.0 |
| Term 6 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |

| <u>PHYS 152</u> | Introductory Physics I | 4.0 |
|-----------------|---|---------|
| | Free elective | 3.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| COM 310 | Technical Communication | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| PHIL 341 | Philosophy of the Environment | 3.0 |
| or | • • | |
| PHIL 251 | Ethics | 3.0 |
| | Environmental Science elective (See degree requirements) | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| Term 8 | | Credits |
| ENVP 360 | Environmental Movements in America | 3.0 |
| ENVS 286 | Community and Ecosystem Ecology | 3.0 |
| ENVS 287 | <u> </u> | 2.0 |
| PHYS 154 | Introductory Physics III | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| BIO 224 | Form, Function & Evolution of Vertebrates | 4.0 |
| BIO 225 | Vertebrate Bio & Evolution Lab | 2.0 |
| ENVP 365 | Introduction to Environmental Policy Analysis | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 12.0 |
| Term 10 | | Credits |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| MATH 410 | Scientific Data Analysis I | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| | Free elective | 3.0 |
| | Environmental Science elective (See degree requirements) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| ENVS 441 | Issues in Global Change I: Seminar | 2.0 |
| <u>MATH 411</u> | Scientific Data Analysis II | 3.0 |
| | Environmental Science electives (See degree requirements) | 7.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| Term 12 | | Credits |
| ENVS 442 | Issues in Global Change II: Research | 2.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 14.0 |
| | | |
| | Total Credits (minimum) | 184 5 |

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|--------------------------------------|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Math Analysis I | 4.0 |
| | Term Credits | 17.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| CHEM 102 | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Math Analysis II | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 239 | Mathematics for the Life Sciences | 4.0 |
| or | | |
| MATH 123 | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| ENVS 270 | History of Life on Earth | 4.0 |
| | Humanities/Social Science elective | 3.0 |
| | Term Credits | 15.0 |
| Term 5 | | Credits |
| | Organic Chemistry II | 4.0 |
| CHEM 244 | · | 3.0 |
| ENVS 272 | Physical Geology | 4.0 |
| ENVS 284 | Physiological and Population Ecology | 3.0 |
| ENVS 285 | Population Ecology Lab | 2.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Term Credits | 17.0 |
| | Tom Ordans | 17.0 |
| Term 6 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |

| PHIL 341 | Philosophy of the Environment | 3.0 |
|-----------------|--|---------|
| or | | |
| PHIL 251 | Ethics | 3.0 |
| | Free elective | 3.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Term Credits | 15.0 |
| Term 7 | | Credits |
| ENVP 360 | Environmental Movements in America | 3.0 |
| ENVS 286 | Community and Ecosystem Ecology | 3.0 |
| ENVS 287 | Community Ecology Lab | 2.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 8 | | Credits |
| BIO 224 | Form, Function & Evolution of Vertebrates | 4.0 |
| BIO 225 | Vertebrate Bio & Evolution Lab | 2.0 |
| ENVP 365 | | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 9 | | Credits |
| COM 310 | Technical Communication | 3.0 |
| <u>PHYS 154</u> | Introductory Physics III | 4.0 |
| | Free elective | 3.0 |
| | Environmental Science elective (See degree requirements) | 4.0 |
| | Term Credits | 14.0 |
| T 40 | | 0 |
| Term 10 | Disdiversity and Consequetion | Credits |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| MATH 410 | Scientific Data Analysis I | 3.0 |
| - | Humanities/Social Science elective | 3.0 |
| | Free elective | 3.0 |
| | Environmental Science elective (See degree requirements) Term Credits | 3.0 |
| | Term Creats | 15.0 |
| Term 11 | | Credits |
| ENVS 441 | Issues in Global Change I: Seminar | 2.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Free elective | 3.0 |
| | Term Credits | 14.0 |
| | | |
| Term 12 | | Credits |
| ENVS 442 | Issues in Global Change II: Research | 2.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 14.0 |
| | | |
| | Total Credits (minimum) | 184.5 |

Recommended Plan Of Study

BS Environmental Science, 5-Year Co-op 5 YR UG Co-op Concentration

| Term 1 | | Credits |
|-----------------|--------------------------------------|---------|
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 101 | General Chemistry I | 3.5 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| | Term Credits | 17.0 |
| Term 2 | | Credits |
| BIO 124 | Evolution and Organismal Diversity | 4.5 |
| | General Chemistry II | 4.5 |
| | Persuasive Writing and Reading | 3.0 |
| | Calculus II | 4.0 |
| or | Calculus II | 4.0 |
| | Introduction to Analysis II | 4.0 |
| | Term Credits | 16.0 |
| | Tom Ground | 10.0 |
| Term 3 | | Credits |
| BIO 126 | Physiology and Ecology | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 239 | | 4.0 |
| or | | • |
| MATH 123 | Calculus III | 4.0 |
| | Term Credits | 16.5 |
| | | |
| Term 4 | | Credits |
| BIO 217 | Evolution | 4.0 |
| CHEM 241 | Organic Chemistry I | 4.0 |
| ENVS 270 | History of Life on Earth | 4.0 |
| | Humanities/Social Science elective | 3.0 |
| | Term Credits | 15.0 |
| | | 0 19 |
| Term 5 | | Credits |
| | Organic Chemistry II | 4.0 |
| CHEM 244 | <u> </u> | 3.0 |
| ENVS 272 | Physical Geology | 4.0 |
| ENVS 284 | Physiological and Population Ecology | 3.0 |
| ENVS 285 | Population Ecology Lab | 2.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 17.0 |
| Term 6 | | Credits |
| ENVP 360 | Environmental Movements in America | 3.0 |
| | = Allional movements in Alliona | 5.0 |

| ENVS 286 | Community and Ecosystem Ecology | 3.0 |
|-----------------|---|----------------|
| ENVS 287 | Community Ecology Lab | 2.0 |
| PHYS 152 | Introductory Physics I | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 7 | | Credits |
| BIO 224 | Form, Function & Evolution of Vertebrates | 4.0 |
| BIO 225 | Vertebrate Bio & Evolution Lab | 2.0 |
| ENVP 365 | Introduction to Environmental Policy Analysis | 3.0 |
| PHYS 153 | Introductory Physics II | 4.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| Term 8 | | Cradite |
| MATH 410 | Scientific Data Analysis I | Credits 3.0 |
| PHYS 154 | Introductory Physics III | 4.0 |
| PHIL 341 | Philosophy of the Environment | |
| or | Philosophy of the Environment | 3.0 |
| PHIL 251 | Ethics | 3.0 |
| | Environmental Science elective (See degree requirements) | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| | - Tomic Ground | |
| Term 9 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |
| | Free elective | 3.0 |
| | Environmental Science elective (See degree requirements) | 3.0 |
| | Term Credits | 12.0 |
| | | |
| Term 10 | | Credits |
| COM 310 | Technical Communication | 3.0 |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| ENVS 441 | Issues in Global Change I: Seminar | 2.0 |
| | Free elective | 3.0 |
| | Humanities/Social Science elective | 3.0 |
| | Environmental Science electives (See degree requirements) | 7.0 |
| | Term Credits | 15.0 |
| | | |
| Term 12 | | Credits |
| ENVS 442 | Issues in Global Change II: Research | 2.0 |
| | Environmental Science electives (See degree requirements) | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 14.0 |
| | | |
| | Total Credits (minimum) | 184. |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Environmental Studies

About the Program

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

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

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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

4.0

Environmental Studies

Bachelor of Science Degree: 182.0 quarter credits

Required Courses

Incoming students, 2011/2012

MATH 122

Calculus II

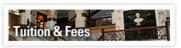
| General requirements | | 67.0 Credits |
|----------------------|--|--------------|
| UNIV 101 | The Drexel Experience | 3.0 |
| ANTH 101 | Introduction to Cultural Anthropology | 3.0 |
| ANTH 110 | Human Past: Anthropology and Prehistoric Archeology | |
| BIO 107 | Cells, Genetics and Physiology | 3.0 |
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 110 | Biological-Diversity, Ecology and Evolution Lab | 1.0 |
| COM 150 | Mass Media and Society | 3.0 |
| ECON 201 | Principles of Microeconomics | 4.0 |
| ECON 202 | Principles of Macroeconomics | 4.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PSCI 110 | American Government | 4.0 |
| PSY 101 | General Psychology I | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| | Two English (ENGL) electives* | 6.0 |
| | Philosophy (PHIL) elective | 3.0 |
| Two History (HI | ST) electives 6.0 | |
| | NGL) course at the 200-level or higher. | |
| MATH 101 | Introduction to Analysis I | 4.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| or | | |
| MATH 121 | Calculus I | 4.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Environmental Studies Core Requirements

66.0 Credits

Theory Sequence Requirements:

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

Methods Sequence Requirements:

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

Natural Science Requirements

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

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

Other Required Courses:

| ANTH 360 | Culture and the Environment | 3.0 |
|------------|--|-----|
| COM 316 | Campaigns for Health and the Environment | 3.0 |
| COM 317 WI | Environmental Communication | 3.0 |
| CJ 373 | Environmental Crimes | 3.0 |
| ENVP 325 | Introduction to Urban and Environmental Planning | 3.0 |
| ENVP 345 | Sociology of the Environment | 3.0 |
| ENVP 346 | Environmental Justice | 3.0 |
| ENVP 360 | Environmental Movements in America | 3.0 |
| ENVP 365 | Introduction to Environmental Policy Analysis | 3.0 |
| ENVS 260 | Environmental Science and Society I | 3.0 |
| PSCI 331 | Environmental Politics | 3.0 |
| SOC 240 | Urban Sociology | 3.0 |

Students select 30.0 credits from the followings:

| BIO 118 | Basics of Cancer | 3.0 |
|-------------|---|-----|
| BIO 220 | Essential Microbiology | 3.0 |
| CHEM 111 | General Chemistry I | 3.0 |
| CHEM 112 | General Chemistry II | 3.0 |
| CHEM 151 | Applied Chemistry | 3.0 |
| COM 101 | Human Communication | 3.0 |
| COM 230 | Techniques of Speaking | 3.0 |
| COM 260 WI | Fundamentals of Journalism | 3.0 |
| COM 270 WI | Business Communication | 3.0 |
| COM 280 | Public Relations | 3.0 |
| COM 310 WI | Technical Communication | 3.0 |
| COM 318 | Film, Celebrity and the Environment | 3.0 |
| COM 320 WI | Science Writing | 3.0 |
| COM 350 WI | Message Design and Evaluation | 3.0 |
| COM 375 WI | Grant Writing | 3.0 |
| ENGL 302 | Environmental Literature | 3.0 |
| ENVS 284 WI | Physiological and Population Ecology | 3.0 |
| ENVS 285 | Population Ecology Lab | 2.0 |
| ENVS 321 | Environmental Health | 3.0 |
| ENVS 322 | Tropical Ecology | 3.0 |
| ENVS 330 | Aquatic Ecology | 3.0 |
| ENVS 413 | Advanced Population Ecology | 3.0 |
| ENVS 436 | Principles of Toxicology I | 3.0 |
| ENVS 437 | Principles of Toxicology II | 3.0 |
| ENVS 441 WI | Issues in Global Change I | 3.0 |
| ENVS 437 | Issues in Global Change II | 3.0 |
| ENVP 275 | Global Climate Change | 3.0 |
| ENVP 480 | Special Topics in Environmental Studies | 3.0 |
| HNRS 201 | Colloquium I: Fairmont Park | 3.0 |
| PHEV 145 | Weather I: Climate and Global Change | 4.0 |
| PHIL 335 | Global Ethical Issues | 3.0 |
| PHIL 341 | Philosophy of the Environment | 3.0 |
| PSCI 211 | American Government II | 4.0 |
| PSCI 371 | Science, Technology and Public Policy | 3.0 |
| PSCI 372 | City in US Political Development | 3.0 |
| PSY 150 | Introduction to Social Psychology | 3.0 |
| SOC 110 | Sociology of the Future | 3.0 |
| SOC 115 | Social Problems | 3.0 |
| SOC 235 | Sociology of Health | 3.0 |
| SOC 330 | Developing Nations | 3.0 |
| SOC 340 | Globalization | 3.0 |
| SOC 343 | American Experience of Wilderness | 3.0 |
| SOC 344 | Social Movements | 3.0 |
| SOC 349 | Sociology of Disasters | 3.0 |
| | | |

Electives 19.0 Credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Recommended Plan Of Study

BS Environmental Studies
4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|--|---------|
| BIO 108 | Cells, Genetics & Physiology Lab | 1.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 101 | Introduction to Analysis I | 4.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| BIO 107 | Cells, Genetics & Physiology | 3.0 |
| | Term Credits | 16.0 |
| _ | | |
| Term 2 | | Credits |
| BIO 109 | Biological Diversity, Ecology & Evolution | 3.0 |
| BIO 110 | Biological Diversity, Ecology & Evolution Lab | 1.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| <u>MATH 122</u> | Calculus II | 4.0 |
| or | | |
| MATH 102 | Introduction to Analysis II | 4.0 |
| | Environmental Studies program elective (See degree | 3.0 |
| | requirements for list) Term Credits | 40.0 |
| | Term Credits | 16.0 |
| Term 3 | | Credits |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| ENVS 230 | General Ecology | 3.0 |
| ANTH 110 | | 3.0 |
| or | Trainan Fast. Antimopology and Fromotorio Alondology | 0.0 |
| ANTH 101 | Introduction to Cultural Diversity | 3.0 |
| | Environmental Studies program elective (See degree | 3.0 |
| | requirements for list) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 4 | | Credits |
| COM 210 | Theory and Models of Communication | 3.0 |
| COM 220 | Qualitative Research Methods | 3.0 |
| ECON 201 | Principles of Microeconomics | 4.0 |
| ENVS 260 | Environmental Science and Society I | 3.0 |
| SOC 240 | Urban Sociology | 3.0 |
| | Term Credits | 16.0 |
| Term 5 | | Credits |
| ANTH 360 | Culture and the Environment | 3.0 |
| ECON 202 | Principles of Macroeconomics | 4.0 |
| ENVP 345 | Sociology of the Environment | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| SOC 260 | Classical Social Theory | 3.0 |
| | • | |

| | Term Credits | 16.0 |
|-------------------|--|---------|
| Term 6 | | Credits |
| CJ 373 | Environmental Crimes | 3.0 |
| ENVS 286 | Community and Ecosystem Ecology | 3.0 |
| PSCI 110 | American Government I | 4.0 |
| PSY 101 | General Psychology I | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis | 3.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| ENVP 346 | Environmental Justice | 3.0 |
| ENVP 360 | Environmental Movements in America | 3.0 |
| PSCI 331 | Environmental Politics | 3.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Environmental Studies program elective (See degree | 3.0 |
| | requirements for list) | 3.0 |
| | Natural science elective | 3.0 |
| | Term Credits | 16.0 |
| Term 8 | | Credits |
| COM 317 | Environmental Communication | 3.0 |
| | English literature course 200-level or above | 3.0 |
| | Environmental Studies program electives (See degree requirements for list) | 9.0 |
| | Term Credits | 15.0 |
| Torm 0 | | Credits |
| Term 9 COM 316 | Campaigns for Health & Envrmt | 3.0 |
| ENVP 325 | Introduction to Urban and Environmental Planning | 3.0 |
| LIVI 323 | English literature course 200-level or above | 3.0 |
| | Environmental Studies program elective (See degree | 3.0 |
| | requirements for list) | 3.0 |
| | History (HIST) elective | 3.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| ENVP 365 | Introduction to Environmental Policy Analysis | 3.0 |
| <u>LIVI 303</u> | Free elective | 3.0 |
| | Philosophy (PHIL) elective | 3.0 |
| | Environmental Studies program electives (See degree | 3.0 |
| | requirements for list) | 6.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| SOC 460 | Contemporary Social Theory | 3.0 |
| or | Contemporary Social Meory | 3.0 |
| <u>ANTH 410</u> | Cultural Theory | 3.0 |
| | Free elective | 3.0 |
| | History (HIST) elective | 3.0 |
| | Environmental Studies program elective (See degree requirements for list) | 3.0 |
| | Term Credits | 12.0 |
| Term 12 | | Credits |
| ENVS 338 | Biodiversity and Conservation | 3.0 |
| | Free electives | 13.0 |
| | Torm Crodite | 15.0 |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

History

About the Major

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

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

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

Degrees Offered

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

The Bachelor of Science (BS) provides a framework for those students who prefer specific course requirements, including sequences in mathematics and the natural sciences.

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

Career Opportunities

The flexible programs allow students to shape a curriculum that meets their needs, whether they are preparing for the business world, graduate school in history or political science, an MBA or other business program, or law school.

Co-Op Experiences

History & Politics majors have a wide variety of co-op experiences from which to choose. Business and public utilities offer many lucrative possibilities, and local, state, and federal governments; museums and archives; and law firms present many additional interesting co-op placements. Pre-law students, for example, are especially eager to see the inside of a law office, whether the co-op job they receive is clerical or a more challenging paralegal assignment. These practical experiences in the "real" world can reinforce the lessons of the classroom, sharpen skills, and establish important contacts. Sample co-op positions include:

- Law clerk/paralegal, Joe Davidson, Attorney-at-Law, Philadelphia
- Research analyst, Legislative Office for Research Liaison, Harrisburg, PA
- Legislative intern, Corporate Public Affairs Division, Philadelphia Electric Company
- Assistant lobbyist, Government Relations Office, Drexel University
- Education intern, Philadelphia Museum of Art
- Researcher, Philadelphia Chamber of Commerce
- Assistant, Office of the Governor, Harrisburg, PA

Visit the Drexel Steinbright Career Development Center page for more detailed information on co-op and post-graduate opportunities.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

History

Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012)

| General education requirements | | 66.0 - 70.0Credits | |
|--------------------------------|---------------------------------|------------------------|-----|
| ENGL 101 | Expository Writing and Reading |) | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | g | 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 course | es* | 6.0-8.0 | |
| *Any Biology (BIO) | Chemisitry (CHEM), Nutrition (N | FS), Physics (PHYS) or | |

Foundation requirements

Environmental Science (ENVS) course.

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

| Core History Requirements | | 49.0 Credits | |
|---------------------------|----------------------------------|--------------|-----|
| HIST 161 | Themes in World Civilization I | | 3.0 |
| HIST 162 | Themes in World Civilization II | | 3.0 |
| HIST 163 | Themes in World Civilization III | | 3.0 |
| HIST 201 | US History to 1815 | | 3.0 |
| HIST 202 | US History, 1815-1900 | | 3.0 |
| HIST 203 | US History since 1900 | | 3.0 |
| HIST 296 | Research Methods in History + | | 3.0 |
| HIST 301 | The Study of History + | | 3.0 |
| HIST 490 WI | Senior Seminar in History I + | | 3.0 |
| HIST 491 WI | Senior Seminar in History II + | | 3.0 |
| | | | |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| PSCI 110 | American Government I | | 4.0 |
|---------------------|--------------------------------------|-----------|-----|
| PSCI 120 | History of Political Thought | | 4.0 |
| PSCI 140 | Introduction to Comparative Analysis | Political | 4.0 |
| or PSCI 150 | International Politics | | |
| Any 200-level E | European History course | 3.0 | |
| Any History of Asia | Latin America, Africa, or | 3.0 | |

⁺ These courses must be taken in sequence.

| History Electives* | 30.0 Credits |
|--------------------|--------------|
|--------------------|--------------|

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

| Free Electives | 33.0- 37.0.0 Credits |
|----------------|----------------------|
| | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

Recommended Plan Of Study

BA History
4 YR UG Co-op Concentration

| 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 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Foreign language course (103-level or higher) | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| HIST 162 | Themes World Civilization II | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Mathematics course | 3.0-4.0 |
| - | Foreign language course (201-level or higher) | 4.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 17.0-18.0 |
| Term 3 | | Credits |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| HIST 163 | Themes World Civilization III | 3.0 |
| PSCI 150 | International Politics | 4.0 |
| or | international Foliation | 4.0 |
| PSCI 140 | Intro Comp Political Analysis | 4.0 |
| | Mathematics course | 3.0-4.0 |
| | Free elective | 2.0 |
| | Term Credits | 15.0-16.0 |
| Tanna 4 | | One dite |
| Term 4 | 110 115-1 (- 4045 | Credits |
| HIST 201 | US History to 1815 | 3.0 |
| - | Science elective (See degree requirements) | 3.0-4.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | History of Latin America, Africa, or Asia | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 15.0-16.0 |
| Term 5 | | Credits |
| HIST 202 | US History, 1815-1900 | 3.0 |
| HIST 296 | Research Methods in History | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Term Credits | 15.0-16.0 |
| Term 6 | | Credits |
| HIST 203 | US History since 1900 | 3.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| _ | | |

| | Free elective | 3.0 |
|----------|--|-------------|
| | International studies elective | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| | History elective (200-level and above HIST course) | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Free electives | 5.0-7.0 |
| | International studies elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 17.0-19.0 |
| Term 8 | | Credits |
| HIST 301 | The Study of History | 3.0 |
| | Free elective | 3.0 |
| | History of Europe course (200-level or higher) | 3.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Term Credits | 15.0 |
| Tarm 0 | | Cradita |
| Term 9 | For stration | Credits |
| | Free electives | 6.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| HIST 490 | Senior Seminar in History I | 3.0 |
| | Free elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| HIST 491 | Senior Seminar in History II | 3.0 |
| | Free electives | 6.0 |
| | History electives (200-level and above HIST courses) | 3.0 |
| | Term Credits | 12.0 |
| Term 12 | | Credits |
| | Free electives | 9.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Term Credits | 15.0 |
| | Total Credits (minimum) | 182.0-188.0 |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

00 0 0-- ---

History

Bachelor of Science Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012)

| General education requirements | | 62.0 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 ma | ath sequence* | 8.0 | |
| Any 8-credit sci | ence sequence** | 8.0 | |
| | | | |

* Sample Math sequences:

8.0

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

MATH 101 Introduction to Math Analysis I 4.0

MATH 102 Introduction to Math Analysis II 4.0

| or | | |
|----|--|--|
| | | |

| MATH 121 | Calculus I | 4.0 |
|----------|-------------|-----|
| MATH 122 | Calculus II | 4.0 |

**Sample Science sequences:

8.0

| Additional science sequence options are available. Check with the the Department. | | |
|---|---|-----|
| BIO 107 | Cells, Genetics and Physiology | 3.0 |
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 110 | Biological Diversity, Ecology and Evolution Lab | 1.0 |
| or | | |
| CHEM 111 | General Chemistry I | 4.0 |
| CHEM 112 | General Chemistry II | 4.0 |
| or | | |
| PHYS 103 | General Physics I | 4.0 |
| PHYS 104 | General Physics II | 4.0 |

Literature

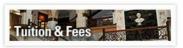
Nonwestern literature requirement:











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| One of the follow | ving courses: | 3.0 | |
|----------------------------|--|-----------------|------------|
| ENGL 203 WI | Post-Colonial Literature I: Africa/Asia/Caribbean/Japa | n/Middle East | 3.0 |
| ENGL 204 | Post-Colonial Literature II: Africa/Asia/Caribbean/Japa | n/Middle East | 3.0 |
| Western literatu | re requirement: | | |
| One of the follow | ving courses: | 3.0 | |
| ENGL 200 WI | Classical to Medieval Litera | | 3.0 |
| ENGL 201 | Renaissance to the Enlight | | 3.0 |
| ENGL 202 WI ENGL 205 WI | Romanticism to Modernism American Literature I | | 3.0 3.0 |
| ENGL 205 WI | American Literature II | | 3.0 |
| ENGL 207 WI | African American Literature | | 3. |
| ENGL 211 WI | British Literature I | | 3. |
| ENGL 212 | British Literature II | | 3.0 |
| Additional gene | ral requirements | | |
| ANTH 101 | Cultural Diversity: Introduct Anthropology | ion to Cultural | 3. |
| or ANTH 110 | The Human Past | | 3. |
| COM 150 | Mass Media and Society | | 3. |
| ECON 201 | Principles of Microeconomi | cs | 4. |
| ECON 202 | Principles of Macroeconom | ics | 4. |
| MUSC 130 | Introduction to Music | | 3.0 |
| PSY 101 | General Psychology | | 3.0 |
| SOC 101 | Introduction to Sociology | | 3. |
| PHIL 105 | Critical Reasoning | | 3. |
| Any 4-credit stati | stics course | 4.0 | |
| Core History Re | quirements | 49.0 Credits | |
| HIST 161 | Themes in World Civilizatio | n I | 3.0 |
| HIST 162 | Themes in World Civilizatio | n II | 3.0 |
| HIST 163 | Themes in World Civilizatio | n III | 3. |
| HIST 201 | US History to 1815 | | 3. |
| HIST 202 | US History, 1815-1900 | | 3.0 |
| HIST 203 | US History since 1900 | | 3.0 |
| HIST 296 | Research Methods in Histo | ry + | 3.0 |
| HIST 301 | The Study of History + | | 3. |
| HIST 490 WI | Senior Seminar in History I | + | 3. |
| HIST 491 WI | Senior Seminar in History II | + | 3. |

Introduction to Comparative Political

American Government I

History of Political Thought

4.0

4.0

PSCI 110

PSCI 120

| PSCI 140 | Analysis | | 4.0 |
|---------------------------------------|---------------------------|-----|-----|
| or PSCI 150 International Politics | | | 4.0 |
| Any 200-level European History course | | 3.0 | |
| Any History of Asia | Latin America, Africa, or | 3.0 | |
| | | | |

+ These courses must be taken in sequence.

| History Electives* 30 | .0 Credits |
|-----------------------|------------|
|-----------------------|------------|

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

| Free Electives | 41.0 Credits |
|----------------|--------------|
| | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

Recommended Plan Of Study

BS History
4 YR UG Co-op Concentration

| Term 1 | | Credits |
|-----------------|---|------------|
| ENGL 101 | Expository Writing and Reading | 3.0 |
| HIST 161 | Themes World Civilization I | 3.0 |
| MATH 101 | Introduction to Analysis I | 4.0 |
| PSCI 110 | American Government I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Term Credits | 15.0 |
| 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 |
| PHIL 105 | Critical Reasoning | 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 |
| MUSC 130 | Introduction to Music | 3.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| PSY 101 | General Psychology I | 3.0 |
| | Term Credits | 16.0 |
| Term 4 | | Credits |
| HIST 201 | US History to 1815 | 3.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| | Western literature survey course (see degree requirements for | |
| | list of options) | 3.0 |
| - | History of Latin America, Africa, or Asia | 3.0 |
| | Science sequence course 1 (See degree requirements list) | 4.0 |
| | Term Credits | 16.0 |
| Term 5 | | Credits |
| HIST 202 | US History, 1815-1900 | 3.0 |
| HIST 296 | Research Methods in History | 3.0 |
| ENGL 203 | Post-Colonial Literature I | 3.0 |
| or | 1 oot oolollar Ellorataro I | 0.0 |
| ENGL 204 | Post-Colonial Literature II | 3.0 |
| PSCI 140 | Introduction to Comparative Political Analysis | 4.0 |
| or | • | |
| PSCI 150 | International Politics | 4.0 |
| | Science sequence course 2 (See degree requirements list) | 4.0 |
| | Term Credits | 17.0 |

| Term 6 | | Credits |
|-----------------|--|---------|
| ECON 201 | Principles of Microeconomics | 4.0 |
| HIST 203 | US History since 1900 | 3.0 |
| ANTH 110 | The Human Past | 3.0 |
| or | | |
| <u>ANTH 101</u> | Introduction to Cultural Diversity | 3.0 |
| | Free electives | 5.0 |
| | Term Credits | 15.0 |
| Term 7 | | Credits |
| ECON 202 | Principles of Macroeconomics | 4.0 |
| | Free electives | 6.0 |
| | Statistics elective | 4.0 |
| | Term Credits | 14.0 |
| | | |
| Term 8 | | Credits |
| HIST 301 | The Study of History | 3.0 |
| | History of Europe course (200-level or higher) | 3.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| _ | | |
| Term 10 | | Credits |
| HIST 490 | Senior Seminar I | 3.0 |
| | Free electives | 6.0 |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| HIST 491 | Senior Seminar II | 3.0 |
| 11101 431 | History electives (200-level and above HIST courses) | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 15.0 |
| | Term Oreans | 10.0 |
| Term 12 | | Credits |
| | History electives (200-level and above HIST courses) | 6.0 |
| | Free electives | 6.0 |
| | Term Credits | 12.0 |
| | | |
| | Total Credits (minimum) | 182.0 |
| | | |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Accelerated Degree

BS/BA in History and MS in Science, Technology & Society

BS/BA in Political Science and MS in Science, Technology & Society

About the Program

Drexel University Permits undergraduate students in 5-year programs to apply for graduate programs while completing their undergraduate programs, allowing students to complete their master's degrees in a shorter amount of time.

The accelerated-degree program provides an opportunity to simultaneously earn both a BA or BS degree and an MS degree in Science, Technology & Society (two diplomas are awarded) in the time normally required to finish a bachelor's degree alone.

Students entering the program must:

- have and maintain a minimum of 3.0 grade point average throughout the program
- have no fewer than 90 earned credits
- have no more than 120 registered credits
- complete only 2 co-ops if in a BS/MS program.

The Department of History and Politics would especially like to encourage its own majors to consider the accelerated degree program in Science, Technology & Society.

For more information about the accelerated BA-BS/MS program, contact:

Lloyd Ackert MSTS Program Director 5023 Macalister Hall Ita24@drexel.edu

Recommended Plan of Study

Students should work closely with faculty advisors in the Science, Technology & Society program to schedule an individualized plan of study for their accelerated degree completion.

The following is a sample plan of study for a student starting in pre-junior year, with 108 credit hours completed (based on a 5-year program in which the last co-op was dropped):

Dual Bachelor's Degree & MSTS Degree

222.0 minimum credits

Term 7

| Undergraduate courses | 13.0 |
|--|------|
| 2 Science, Technology & Society courses* | 6.0 |
| Total credits | 19.0 |

Term 8

| Undergraduate courses | 13.0 | |
|---|------|--|
| 2 Science, Technology & Society courses | 6.0 | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| | Total credits | 19.0 | |
|----------|---|------|--|
| Term 9 | | | |
| | Undergraduate courses | 10.0 | |
| | 2 Science, Technology & Society courses | 6.0 | |
| | 1 graduate elective* | 3.0 | |
| | Total credits | 19.0 | |
| Term 10 | | | |
| | Undergraduate courses | 10.0 | |
| | 2 Science, Technology & Society courses | 6.0 | |
| HIST 696 | Seminar in Science, Technology, and Society | 3.0 | |
| | Total credits | 19.0 | |
| Term 11 | | | |
| | Undergraduate courses | 13.0 | |
| | 1 graduate elective* | 3.0 | |
| HIST 697 | Practicum: Science and Technology in Action | 3.0 | |
| | Total credits | 19.0 | |
| Term 12 | | | |
| | Undergraduate courses | 10.0 | |
| | 1 graduate elective* | 3.0 | |
| HIST 698 | MS Thesis | 6.0 | |
| | Total credits | 19.0 | |

^{**}Graduate electives may be taken as graduate-level courses in History-Politics or from other departments/Colleges within the University



COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Accelerated Degree

BS in History/MS(LIS) or BA in History/MS(LIS)

This program pairs the undergraduate Hitory major with the iSchool's MS in Library and Information Science in an accelerated time-frame. Students have the opportunity to earn both the undergraduate and graduate degrees in five years. For students completing this program, the undergraduate background in history provides a natural fit with areas of library specialization, such as archival studies.

About the program

Applicants will be provisionally admitted into the program as incoming freshmen. Participants have the option of choosing either a one or a two co-op history program. The non-co-op option is not available for students choosing this accelerated degree option.

Students complete 180 credits toward the BA in History or the BS in History degree, with five fewer free elelective credits than the non-accelerated program. Students complete 45 credits for the MS in Library and Information Science degree, starting to complete some graduate requirements during the last years of the BS or BA portion of their program.

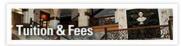
While completing the BS or BA portion of the program, students must complete one of the following undergraduate Information Science courses:











| INFO 101 | Introduction to Information Technology | 3.0 |
|----------|--|-----|
| INFO 102 | Introduction to Information Systems | 3.0 |
| INFO 105 | Information Evaluation, Organization, and Use | 3.0 |
| INFO 108 | Foundations of Software | 3.0 |
| INFO 110 | Human-Computer Interaction I | 3.0 |
| INFO 215 | Social Aspects of Information Systems | 3.0 |

When BS/BA students have accumulated 90 credits, but have not yet registered for 120 credits, they can apply to formally enter the graduate program. The student must have at least a 3.2 GPA, and they must maintain this 3.2 GPA for the graduate portion of the program.

Advising/Plan of Study

Students should work closely with faculty advisors to schedule and maintain a plan of study throughout the accelerated program.

For more information on the undergraduate History portion of the program, contact: Kathryn Steen History & Politics Macalister Hall 5012 steen@drexel.edu

For more information on the Graduate portion of the program, contact:

Lynne Hickle Program Coordinator iSchool leh25@drexel.edu

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies

The Department of International Area Studies offers a BA in international area studies and minors in international area studies and in eight languages: Arabic, Chinese, French, German, Italian, Japanese, Russian, and Spanish.

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

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

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

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

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

Writing-Intensive Course Requirements

In order to graduate, all students 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.

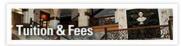
A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies

The Department of International Area Studies offers a Bachelor of Arts degree.

The Bachelor of Arts (BA)

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

Students select one concentration:

- Global Science, Technology and Society requirements
- International Business and Economics requirements
- Justice and Human Rights requirements
- Literature, Culture and the Arts requirements

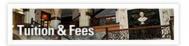
Note: Students who enrolled in the BS degree (prior to 2005) may view the former Bachelor of Science requirements in the archived catalog.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies

Global Science, Technology and Society Concentration

Bachelor of Arts Degree: 182.0 credits

Degree Requirements

Incoming students, 2011/2012

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

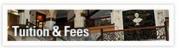
| IAS Core Curriculum Requirements | | 12.0 Credits | |
|-------------------------------------|--|--------------|---|
| IAS 359 | Culture and Values | 3.0 | _ |
| IAS 360 | Civilization | 3.0 | |
| IAS 190 | Global Research Methods | 3.0 | |
| WMST 240 | Women and Society in Global Context | 3.0 | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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

Area-specific courses:

6.0 Credits

Students select at least two region specific HIS or PSCI courses approved by IAS. $\label{eq:psc} % \begin{subarray}{ll} \end{subarray} % \begin$

| Global Science, Technology and Society Requirements | | 39.0 Credits |
|---|---|--------------|
| COM 240 | New Technologies in Communication | 3.0 |
| ENGL 300 WI | Literature and Science | 3.0 |
| HIST 280 | History of Science I | 3.0 |
| HIST 285 | Technology in Historical Perspective | 3.0 |
| HIST 286 | Exploration of Technology and Gender | 3.0 |
| HIST 290 | Technology and the World Community | 3.0 |
| PHIL 335 | Global Ethical Issues | 3.0 |
| PSCI 371 | Science, Technology and Public Policy | 3.0 |
| SOC 235 | Sociology of Health | 3.0 |
| SOC 345 | Sociology of the Environment | 3.0 |

Global Science, Technology and Society Distribution Requirements

33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

| ANTH 210 | Worldview: Science, Religion, Magic | 3.0 |
|----------|--|-----|
| BIO 264 | Ethnobotany | 3.0 |
| ECON 301 | Microeconomics | 4.0 |
| ECON 321 | Macroeconomics | 4.0 |
| ECON 351 | Resource and Environmental Economics | 4.0 |
| ENGL 302 | Environmental Literature | 3.0 |
| HIST 220 | History of American Business | 3.0 |
| HIST 223 | Women and Work in America | 3.0 |
| HIST 281 | History of Science II | 3.0 |

| HIST 292 | Technology in American Life | 3.0 |
|-----------------|---|--------------|
| IAS 320 | Building Global Bridges | 3.0 |
| IAS 360 | Special Topics in World Civilization *** | 3.0 |
| IAS 390 | Special Topics in International Area Studies *** | var. |
| NFS 345 WI | Foods and Nutrition of World Cultures | 3.0 |
| NFS 446 | Perspectives on World Nutrition | 3.0 |
| PHIL 321 | Biomedical Ethics | 3.0 |
| PHIL 341 | Philosophy of the Environment | 3.0 |
| PHIL 351 | Philosophy of Technology | 3.0 |
| PHIL 361 | Philosophy of Science | 3.0 |
| PSCI 352 | Ethics and International Relations | 3.0 |
| SOC 225 | Sociology of Technology and Aging | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| SOC 330 | Developing Nations and the International Division of Labor | 3.0 |
| SOC 346 | Environmental Justice | 3.0 |
| SOC 435 | Seminar: Organization of American States*** | 3.0 |
| WRIT 400 | Writing in Cyberspace | 4.0 |
| *Special topics | s courses with an international or relevan | t theme will |

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

^{***}Repeatable for credit.

| Electives | 11.0-23.0 Credits |
|-----------|-------------------|
| | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

^{**}As appropriate to the major.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies

International Business and Economics Concentration

Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

| General Requirements 49.0-52.0 Credits | | |
|--|---|---|
| Cultural Diversity | 3.0 | |
| Principles of Microeconomics | 4.0 | |
| Principles of Macroeconomics | 4.0 | |
| Expository Writing and Reading | 3.0 | |
| Persuasive Writing and Reading | 3.0 | |
| Analytical Writing and Reading | 3.0 | |
| Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East | 3.0 | |
| Language and Society | 3.0 | |
| Critical Reasoning | 3.0 | |
| International Politics | 3.0 | |
| The Drexel Experience | 2.0 | |
| Two mathematics courses | 6.0 - 8.0 | |
| Two science courses | 6.0 | |
| One ethics course | 3.0 | |
| | Cultural Diversity Principles of Microeconomics Principles of Macroeconomics Expository Writing and Reading Persuasive Writing and Reading Analytical Writing and Reading Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East Language and Society Critical Reasoning International Politics The Drexel Experience Two mathematics courses Two science courses | Cultural Diversity 3.0 Principles of Microeconomics 4.0 Principles of Macroeconomics 4.0 Expository Writing and Reading 3.0 Persuasive Writing and Reading 3.0 Analytical Writing and Reading 3.0 Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East 3.0 Language and Society 3.0 Critical Reasoning 3.0 International Politics 3.0 The Drexel Experience 2.0 Two mathematics courses 6.0 - 8.0 Two science courses 6.0 |

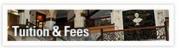
| IAS Core Curriculum Requirements | | 12.0 Credits |
|-------------------------------------|---|--------------|
| IAS 359 | Culture and Values | 3.0 |
| IAS 360 | Special Topics in World Civilization | 30 |
| IAS 190 | Global Research Methods | 3.0 |
| WMST 240 | Women and Society in Global Context | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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

Area-specific courses:

6.0 Credits

Students select at least two region specific HIS or PSCI courses approved by IAS.

| International Business and Economics Requirements | | 31.0 Credits |
|--|--|--------------|
| BLAW 340 | International Business Law | 4.0 |
| ECON 342 | Economic Development | 4.0 |
| ENGL 360 WI | Literature and Society | 3.0 |
| INTB 332 | Multinational Corporations | 3.0 |
| INTB 334 | International Trade | 4.0 |
| INTB 338 | Regional Studies in Economic Policies and International Business | 4.0 |
| PHIL 301 | Business Ethics | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| ANTH 310 | Societies in Transition | 3.0 |
| 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 |
|----------|---|-----|
| COM 345 | Intercultural Communication | 3.0 |
| COM 360 | International Communication | 3.0 |
| COM 361 | International Public Relations | 3.0 |
| ECON 301 | Microeconomics | 4.0 |
| ECON 321 | Macroeconomics | 4.0 |
| ECON 326 | Economic Ideas | 4.0 |
| ENGL 325 | Topics in World Literature | 3.0 |
| HIST 290 | Technology and World Community | 3.0 |
| IAS 320 | Building Global Bridges | 3.0 |
| IAS 360 | Special Topics in World Civilization ** | 3.0 |

| IAS 390 | Special Topics in International Area Studies ** | var. | |
|----------|--|------|--|
| INTB 336 | International Money and Finance | 3.0 | |
| INTB 338 | Regional Studies in International Business and Economic Policy | 3.0 | |
| PHIL 331 | Philosophy and Public Policy | 3.0 | |
| PSCI 255 | International Political Economy | 4.0 | |
| PSCI 340 | Politics of Developing Nations | 3.0. | |
| PSCI 351 | International Organizations | 3.0. | |
| PSCI 352 | Ethics and International Affairs | 3.0. | |
| PSCI 357 | European Union | 3.0. | |
| MKTG 301 | Introduction to Marketing Management | 5.0 | |
| MKTG 322 | Advertising and Integrated Marketing Communications | 4.0 | |
| MKTG 351 | Marketing for Non-Profit Organizations | 4.0 | |
| MKTG 357 | Global Marketing | 4.0 | |
| SOC 220 | Wealth and Power | 3.0 | |
| SOC 310 | Political Sociology | 3.0 | |
| SOC 340 | Globalization | 3.0 | |
| SOC 435 | Seminar: Organization of American States** | 3.0 | |
| | | * | |

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

Electives 6.0-14.0 Credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

^{**}Repeatable for credit.

Recommended Plan Of Study

BA International Area Studies, International Business

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

| Term 1 | | Credits |
|-----------------|--|---------|
| ANTH 101 | Introduction to Cultural Diversity | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 101 | Introduction to Analysis I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Language course | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| LING 102 | Language and Society | 3.0 |
| MATH 102 | Introduction to Analysis II | 4.0 |
| PHIL 105 | Critical Reasoning | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Language course | 4.0 |
| | Term Credits | 18.0 |
| Term 3 | | Credits |
| ECON 201 | Principles of Microeconomics | 4.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| IAS 190 | Global Research Methods | 3.0 |
| PSCI 150 | International Politics | 4.0 |
| | Language course | 4.0 |
| | Term Credits | 18.0 |
| | | |
| Term 4 | | Credits |
| ECON 202 | Principles of Macroeconomics | 4.0 |
| ENGL 204 | Post-Colonial Lit II | 3.0 |
| WMST 240 | Women/Society Global Context | 3.0 |
| | Language course | 4.0 |
| | Science elective (See degree requirements) | 3.0 |
| | Term Credits | 17.0 |
| Term 5 | | Credits |
| | Area-specific history course | 3.0 |
| | Language course | 3.0 |
| | Two concentration distribution courses (see degree | |
| | requirements for list) | 6.0 |
| | Science elective (See degree requirements) | 4.0 |
| | Term Credits | 16.0 |
| Term 6 | | Credits |
| INTB 334 | International Trade | 4.0 |
| SOC 260 | Classical Social Theory | |
| <u>500 200</u> | - | 3.0 |
| | Ethics elective | 3.0 |

| | Area-specific history course | 3.0 |
|--------------------|---|-----------|
| | Term Credits | 13.0 |
| | | |
| Term 7 | | Credits |
| ECON 342 | Economic Development | 4.0 |
| <u>IAS 360</u> | Special Topics World Civilization | 3.0 |
| PHIL 301 | Business Ethics | 3.0 |
| SOC 330 | Developing Nations/International Division of Labor | 3.0 |
| or | | |
| <u>ANTH 310</u> | Society In Transition: Modern and Third World | 3.0 |
| | Language course | 3.0 |
| | Term Credits | 16.0 |
| T 0 | | One ditte |
| Term 8 | International Business Law | Credits |
| | International Business Law | 4.0 |
| INTB 332 | Multinational Corporations | 4.0 |
| | Two concentration distribution courses (see degree | 6.0 |
| | requirements for list) | 2.0 |
| | Language course | 3.0 |
| | Term Credits | 17.0 |
| Tarm 0 | | Credits |
| Term 9 ENGL 360 | Literature and Society | 3.0 |
| INTB 338 | Literature and Society Regional Studies in Economic Policies & International | 3.0 |
| IN 1 D 330 | Business | 4.0 |
| | Language course | 3.0 |
| | Two concentration distribution courses (see degree | |
| | requirements for list) | 6.0 |
| | Term Credits | 16.0 |
| | | |
| Term 10 | | Credits |
| | Language course | 3.0 |
| | Free elective | 3.0 |
| | Two concentration distribution courses (see degree | |
| | requirements for list) | 6.0 |
| | Term Credits | 12.0 |
| | | |
| Term 11 | | Credits |
| IAS 359 | Culture and Values | 3.0 |
| | Language course | 3.0 |
| | Concentration distribution course (see degree requirements | 3.0 |
| | for list) | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 12.0 |
| | | |
| Term 12 | | Credits |
| | Free elective | 3.0 |
| | Two concentration distribution courses (see degree | 6.0 |
| | requirements for list) | |
| | Language course | 3.0 |
| | Term Credits | 12.0 |
| | Total Condita (minimum) | 400.0 |
| | Total Credits (minimum) | 182.0 |
| | | |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies Justice and Human Rights Concentration

Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

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

| IAS Core Curriculum Requirements | | 12.0 Credits | |
|-------------------------------------|---|--------------|--|
| IAS 359 | Culture and Values | 3.0 | |
| IAS 360 | Special Topics in World Civilization | 3.0.0 | |
| IAS 190 | Global Research Methods | 3.0 | |
| WMST 240 | Women and Society in Global Context | 3.0 | |

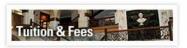
Language Requirements 21.0 - 33.0 Credits











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Area-specific courses:

6.0 Credits

Students select at least two region specific HIS or PSCI courses approved by IAS. $\label{eq:psc}$

| Justice and Human Rights Requirements | | 31.0 Credits |
|--|---|--------------|
| ANTH 410 | Cultural Theory | 3.0 |
| ANTH 310 | Societies in Transition | 3.0 |
| SOC 330 | Developing Nations | |
| ENGL 360 WI | Literature and Society* | 3.0 |
| PHIL 335 | Global Ethical Issues | 3.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| PSCI 329 | Theories of Justice | 3.0 |
| PSCI 352 | Ethics and International Affairs | 3.0 |
| PSCI 353 | International Human Rights | 3.0 |
| SOC 260 WI | Classical Social Theory | 3.0 |
| One of the foll | lowing courses: | |
| PSCI 351 | International Organizations | 3.0 |
| PSCI 357 | The European Union | 3.0 |
| SOC 435 | Seminar: Organization of American States | 3.0 |

^{*}Justice and Human rights related topics.

Justice and Human Rights Distribution Requirements*

33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

| AFAS 295 | Special Topics in Africana Studies* | 3.0 |
|---------------|---|-----|
| ANTH 312 | Intercultural Behavior | 3.0 |
| or COM 345 | Intercultural Communication | 3.0 |
| COM 360 | International Communication | 3.0 |
| COM 380 | Special Topics in Communication Theory: International Negotiation | 3.0 |
| ECON 321 | Macroeconomics | 4.0 |
| ECON 342 | Economic Development | 4.0 |
| ENGL 360 WI | Literature and Society* | 3.0 |

| HIST 290 | Technology and World Community | 3.0 | |
|----------|--|------|--|
| IAS 360 | Special Topics in World Civilization* | 3.0 | |
| IAS 390 | Special Topics in International Area Studies* | var. | |
| PHIL 331 | Philosophy and Public Policy | 3.0 | |
| PHIL 341 | Philosophy of the Environment | 3.0 | |
| PHIL 391 | Philosophy of Religion | 3.0 | |
| PSCI 240 | Comparative Government | 3.0 | |
| PSCI 255 | International Political Economy | 4.0 | |
| PSCI 340 | Politics of Developing Nations | 3.0. | |
| PSCI 351 | International Organizations | 3.0 | |
| PSCI 357 | European Union | 3.0. | |
| PSCI 365 | Politics, Law and Justice | 3.0. | |
| PSCI 367 | International Law | 3.0. | |
| SOC 220 | Wealth and Power | 3.0 | |
| SOC 310 | Political Sociology | 3.0 | |
| SOC 435 | Seminar: Organization of American States | 3.0 | |
| SOC 344 | Social Movements | 3.0 | |
| SOC 346 | Environmental Justice | 3.0 | |
| WMST 280 | Special Topics in Women's Studies*** | 3.0 | |
| | | | |

^{*}Special topics courses with an international or relevant theme will be considered for course credit upon request and review. **Repeatable for credit. ***Justice and Human rights related topics.

| Electives | 12.0-24.0 Credits |
|-----------|-------------------|
| | |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

49 0-52 0 Credits

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

International Area Studies Literature, Culture and the Arts Concentration

Bachelor of Arts Degree: 182.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

General Requirements

| General Requirements 49.0-52.0 Credits | | | |
|--|--------------------------------|-----------|--|
| ANTH 101 | Cultural Diversity | 3.0 | |
| ECON 201 | Principles of Microeconomics | 4.0 | |
| ECON 202 | Principles of Macroeconomics | 4.0 | |
| ENGL 101 | Expository Writing and Reading | 3.0 | |
| ENGL 102 | Persuasive Writing and Reading | 3.0 | |
| ENGL 103 | Analytical Writing and Reading | 3.0 | |
| LING 102 | Language and Society | 3.0 | |
| PHIL 105 | Critical Reasoning | 3.0 | |
| PSCI 150 | International Politics | 3.0 | |
| UNIV 101 | The Drexel Experience 2.0 |) | |
| MATH 100+ | Two mathematics courses | 6.0 - 8.0 | |
| | Two science courses | 6.0 | |
| | One ethics course | 3.0 | |

| IAS Core Curriculum Requirements | | 12.0 Credits |
|-------------------------------------|---|--------------|
| IAS 359 | Culture and Values | 3.0 |
| IAS 360 | Special Topics in World Civilization | 3.0 |
| IAS 190 | Global Research Methods | 3.0 |
| WMST 240 | Women and Society in Global Context | 3.0 |

Language Requirements 21.0 - 33.0 Credits

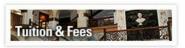
At least 4 language courses at the 300-level are required for graduation, with a minimum of 21 credits in at least one language.











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Students select at least two region specific HIS or PSCI courses approved by IAS.

| Literature, Culture and the Arts Requirements | | 30.0 Credits |
|--|--|--------------|
| ANTH 212 | Topics in World Ethnography | 3.0 |
| ANTH 312 | Intercultural Behavior | 3.0 |
| or COM 345 | Intercultural Communication | 3.0 |
| ANTH 410 | Cultural Theory | 3.0 |
| ENGL 202 WI | Romanticism to Modernism | 3.0 |
| ENGL 204 | Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 360 WI | Literature and Society* | 3.0 |
| MUSC 331 | World Musics | 3.0 |
| PHIL 231 | Aesthetics | |
| Students selec | ct one of the following: | |
| ARTH 101 | History of Art I: Ancient to Medieval | 3,0 |
| ARTH 102 | History of Art II: Renaissance to 18th Century | 3,0 |
| ARTH 103 | History of Art III: Early to Late Modern Art | 3.0 |
| | Language course (level 331, 371, 431, or 471) | 3.0 |

^{*}As appropriate to the major.

Literature Culture and the Arts Distribution Requirements*

33.0 Credits

Students select 33.0 credits from at least 4 different disciplines:

| ANTH 210 | Worldview: Science, Religion, Magic | 3.0 |
|-------------|--|-----|
| ANTH 220 | Age in Cross-Cultural Perspective | 3.0 |
| COM 210 | Theory of Communication | 3.0 |
| COM 342 | English Worldwide | 3.0 |
| COM 355 | Ethnography of Communication | 3.0 |
| COM 360 | International Communication | 3.0 |
| COM 390 WI | Global Journalism | 3.0 |
| ENGL 200 WI | Classical to Medieval Literature | 3.0 |

Renaissance to the

| ENGL 201 | Enlightenment | 3.0 | |
|-----------------|---|------------|--|
| ENGL 203 WI | Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East | 3.0 | |
| ENGL 300 WI | Literature and Science | 3.0 | |
| ENGL 335 | Mythology | 3.0 | |
| ENGL 355 WI | Women in Literature | 3.0 | |
| ENGL 323 | Literature and Other Arts** | 3.0 | |
| ENGL 325 | Topics in World Literature | 3.0 | |
| IAS 320 | Building Global Bridges | 3.0 | |
| IAS 360 | Special Topics in World Civilization *** | 3.0.0 | |
| IAS 390 | Special Topics in International Area Studies *** | var. | |
| MUSC 130 | Introduction to Music | 3.0 | |
| NFS 445 | Perspectives on World Nutrition | 3.0 | |
| PHIL 201 | History of Western Philosophy I | 3.0 | |
| PHIL 211 | Metaphysics | 3.0 | |
| PHIL 241 | Social and Political Philosophy | 3.0 | |
| PHIL 391 | Philosophy of Religion | 3.0 | |
| PSCI 120 | History of Political Thought | 4.0 | |
| PSCI 323 | Comparative Political Thought | 3.0 | |
| | Language course level (331, 371, 431, or 471) | 3.0 | |
| *Special topics | courses with an international or relevant | theme will | |

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

^{***}Repeatable for credit.

| Electives 11.0-23.0 Credits |
|-----------------------------|
|-----------------------------|

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

^{**}As appropriate to the major.

Recommended Plan Of Study

BA International Area Studies, Literature, Culture and the Arts

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

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

| or | | |
|-----------------|---|-------------|
| ARTH 103 | History of Art III: Early Mode | 3.0 |
| Or ARTH 102 | History of Art II: Renaissance | 3.0 |
| AICHT 102 | Language course | 4.0 |
| | Lit, Culture & Arts distribution course (See requirements) | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 7 | | Credits |
| COM 345 | Intercultural Communication | 3.0 |
| Or | Approaches to Intercultural Pohavier | 3.0 |
| ANTH 312 | Approaches to Intercultural Behavior Lit, Culture & Arts distribution courses (See requirements) | 6.0 |
| | Area-specific course (See degree requirements) | 3.0 |
| | Language course | 3.0 |
| | Term Credits | 15.0 |
| | Term Oreans | 10.0 |
| Term 8 | | Credits |
| ANTH 410 | Cultural Theory | 3.0 |
| | Post-Colonial Literature II | 3.0 |
| ENGL 360 | Literature and Society | 3.0 |
| | Language course | 3.0 |
| | Lit, Culture & Arts distribution course (See requirements) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| ENGL 202 | Romanticism to Modernism | 3.0 |
| IAS 360 | Civilization | 3.0 |
| PHIL 335 | Global Ethical Issues | 3.0 |
| | Language course | 3.0 |
| | Lit, Culture & Arts distribution course (See requirements) | 3.0 |
| | Term Credits | 15.0 |
| T 40 | | One ditte |
| Term 10 | Warran Casisty Olahal Cantaut | Credits |
| WMST 240 | Women/Society Global Context | 3.0 |
| | Free elective | 3.0 |
| | Language course | 3.0 |
| | Lit, Culture & Arts distribution courses (See requirements) Term Credits | 3.0 12.0 |
| | Term Credits | 12.0 |
| Term 11 | | Credits |
| IAS 359 | Culture & Values | 3.0 |
| | Free elective | 3.0 |
| | Language course | 3.0 |
| | Lit, Culture & Arts distribution course (See requirements) | 3.0 |
| | Term Credits | 12.0 |
| | | |
| Term 12 | | Credits |
| | Free elective | 3.0 |
| | Lit, Culture & Arts distribution courses (See requirements) | 6.0 |
| | Language course | 3.0 |
| | Term Credits | 12.0 |
| | Total Cradite (minimum) | 402.0 |
| | Total Credits (minimum) | 182.0 |

Last Updated: May 31, 04:06 pm Home Contents

Email Search Feedback

<u>Index</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Mathematics

About the Major

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

Abstract Reasoning

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

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.

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.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Mathematics

Dual Degree Bachelor's Programs

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

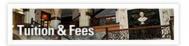
Dual majors are common in mathematics/computer science and mathematics/physics. Students interested in a dual major should consult with their advisor or contact the assistant department head. Dual majors in other fields are also possible, but early planning and discussions with advisors is essential.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Mathematics

Bachelor of Arts: 180.0 credits

Degree Requirements

Incoming students, 2011/2012

Free electives

| General education requirements* | | | 55.0 Credits |
|--|--------------------------------|-----|--------------|
| COM 230 | Public Speaking | | 3.0 |
| CS 121 | Computational Lab I | | 1.0 |
| CS 122 | Computational Lab II | | 1.0 |
| CS 123 | Computational Lab III | | 1.0 |
| CS 131 | Computer Programming A | | 3.0 |
| CS 132 | Computer Programming B | | 3.0 |
| ENGL 101 | Expository Writing and Reading | | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| UNIV 101 | The Drexel Experience | | 2.0 |
| Humanities and Fine Arts electives | | 6.0 | |
| International S | tudies electives | 6.0 | |
| Science electives | | 8.0 | |
| Social and Behavioral Sciences electives | | 6.0 | |
| Studies in Diversity electives | | 6.0 | |
| | (I) I' II | | |
| options select | (depending upon other ted) | | 64.0 Credits |

| Core mathematics requirements | | 27.0 Credits |
|-------------------------------|--|--------------|
| MATH 121 | Calculus I * | 4.0 |
| MATH 122 | Calculus II | 4.0 |
| MATH 123 | Calculus III | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| MATH 201 | Linear Algebra | 4.0 |
| MATH 210 | Differential Equations | 4.0 |
| MATH 220 | Introduction to Mathematical Reasoning | 3.0 |
| | | |

64.0











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Additional mathematics requirements

| 3.0 | - 4.0 | Cred | its |
|-----|-------|------|-----|
| | | | |

| MATH 331 | Abstract Algebra I | 4.0 |
|----------------|-------------------------------|-----|
| or MATH 401 | Elements of Modern Analysis I | 3.0 |

Students complete at least one of the

| following depth sequences: | 9.0 - 11.0 Credits | |
|----------------------------|----------------------------------|-----|
| MATH 221 | Discrete Mathematics | 3.0 |
| MATH 316 | Symbolic Software | 3.0 |
| MATH 332 | Abstract Algebra II | 3.0 |
| or | | |
| MATH 321 | Vector Calculus | 4.0 |
| MATH 322 | Complex Variables | 4.0 |
| MATH 402 | Elements of Modern Analysis II | 3.0 |
| or | | |
| MATH 300 | Numerical Analysis I with MATLAB | 4.0 |
| MATH 301 | Numerical Analysis II | 3.0 |
| MATH 305 | Optimization Theory | 4.0 |
| or | | |
| MATH 311 | Probability and Statistics I | 4.0 |
| MATH 312 | Probability and Statistics II | 4.0 |
| MATH 318 WI | Statistical Software | 3.0 |
| or | | |
| MATH 205 | Survey of Geometry | 3.0 |
| MATH 311 | Probability and Statistics I | 4.0 |

Students complete Four (4) additional mathematics courses

MATH 312

12.0 Credits

4.0

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

Probability and Statistics II

Students complete three (3) additional courses is fields related to mathematics

9.0 Credits

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

* Categories of Electives:

Humanities and arts electives

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

International electives

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

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

requirements in other categories as well.

Science electives

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

Social and behavioral sciences electives

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

Studies in diversity electives

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

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|---|----------|
| CS 121 | Computation Lab I | 1.0 |
| CS 131 | Computer Programming A | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Science elective (See degree requirements) | 4.0 |
| | Term Credits | 16.0 |
| T 0 | | One dite |
| Term 2 | Commutation Lab II | Credits |
| CS 122 | Computation Lab II | 1.0 |
| CS 132 | Computer Programming B | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| | Calculus II | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Science elective (See degree requirements) | 4.0 |
| | Term Credits | 16.0 |
| Term 3 | | Credits |
| CS 123 | Computation Lab III | 1.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 123 | | 4.0 |
| MATH 220 | Introduction to Mathematical Reasoning | 3.0 |
| | Social science elective | 3.0 |
| | Term Credits | 14.0 |
| | Tom Ground | 1-110 |
| Term 4 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 200 | | 4.0 |
| MATH 201 | Linear Algebra | 4.0 |
| | Diversity studies elective | 3.0 |
| | International studies elective | 3.0 |
| | Term Credits | 17.0 |
| | | |
| Term 5 | | Credits |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | Free electives | 6.0 |
| | MATH elective from BS in Mathematics requirements (or see | 3.0 |
| | degree list) | |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 15.0 |
| Term 6 | | Credits |
| MATH 210 | Differential Equations | 4.0 |
| | MATH elective from BS in Mathematics requirements (or see | 3.0 |

| | degree list) | |
|-----------------|---|---------|
| | Social science elective | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| Term 7 | | Credits |
| | Free electives | 9.0 |
| | MATH course selected from sequence option (see degree requirements) | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 15.0 |
| | Tom Croans | .010 |
| Term 8 | | Credits |
| MATH 401 | Elements of Modern Analysis I | 3.0 |
| or | · | |
| MATH 331 | Abstract Algebra I | 4.0 |
| | International studies elective | 3.0 |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | Free electives | 6.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | Free electives | 9.0 |
| | MATH course selected from sequence option (see degree | 3.0 |
| | requirements) Term Credits | 15.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| TOTAL TO | MATH elective from BS in Mathematics requirements (or see | Orcuito |
| | degree list) | 4.0 |
| | Free electives | 12.0 |
| | Term Credits | 16.0 |
| | | |
| Term 11 | | Credits |
| | Free electives | 10.0 |
| | MATH course selected from sequence option (see degree | |
| | requirements) | 3.0 |
| | Term Credits | 13.0 |
| | | |
| Term 12 | | Credits |
| | Free electives | 9.0 |
| | MATH elective from BS in Mathematics requirements (or see | 3.0 |
| | degree list) | 3.0 |
| | Term Credits | 12.0 |
| | Total Credits (minimum) | 180.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

BA Mathematics, 4-year Co-Op 4 YR UG Co-op Concentration

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

| | MATH elective from BS in Mathematics requirements (or see degree list) | 3.0 |
|-----------------|--|--------------|
| | Free electives | 6.0 |
| | Social science elective | 3.0 |
| | Term Credits | 15.0 |
| Term 7 | | Credits |
| | MATH elective from BS in Mathematics requirements (or see degree list) | 3.0 |
| | Free electives | 9.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 15.0 |
| Term 8 | | Credits |
| or | Elements of Modern Analysis I | 3.0 |
| <u>MATH 331</u> | Abstract Algebra I | 4.0 |
| | Free electives | 9.0 |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | Term Credits | 15.0 |
| Term 9 | | Credits |
| | MATH course selected from sequence option (see degree requirements) | 3.0 |
| | Free electives | 9.0 |
| | International studies elective | 3.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | Free electives | 9.0 |
| | MATH course selected from sequence option (see degree requirements) | 3.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| | Diversity studies elective | 3.0 |
| | MATH course selected from sequence option (see degree requirements) | 3.0 |
| - | Free electives | 7.0 |
| | Term Credits | 13.0 |
| T 40 | | 6 II. |
| Term 12 | Free elections | Credits |
| | Free electives | 9.0 |
| | MATH elective from BS in Mathematics requirements (or see | 4.0 |
| | degree list) Term Credits | 13.0 |
| | Total Credits (minimum) | 180.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

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

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

| | International studies elective | 3.0 |
|-----------------|---|---------|
| | Free electives | 6.0 |
| | Term Credits | 15.0 |
| Term 7 | | Credits |
| MATH 401 | Elements of Modern Analysis I | 3.0 |
| or | | |
| <u>MATH 331</u> | Abstract Algebra I | 4.0 |
| | Diversity studies elective | 3.0 |
| | Free electives | 6.0 |
| | International studies elective | 3.0 |
| | Term Credits | 15.0 |
| Term 8 | | Credits |
| | Course in a field related to Math (See degree requirements) | 3.0 |
| | MATH course selected from sequence option (see degree | |
| | requirements) | 3.0 |
| | Free electives | 6.0 |
| | MATH elective from BS in Mathematics requirements (or see | |
| | degree list) | 3.0 |
| | Term Credits | 15.0 |
| Term 9 | | Credits |
| 1011110 | Course in a field related to Math (See degree requirements) | 3.0 |
| | Free electives | 9.0 |
| | MATH electives from BS in Mathematics requirements (or see | 5.0 |
| | degree list) | 3.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| Term 10 | ************************************** | Credits |
| | MATH course selected from sequence option (see degree | 3.0 |
| | requirements) Humanities/Fine Arts elective | 0.0 |
| | | 3.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| Term 11 | | Credits |
| | MATH course selected from sequence option (see degree | 3.0 |
| | requirements) | |
| | Free electives | 10.0 |
| | Term Credits | 13.0 |
| Term 12 | | Credits |
| | MATH elective from BS in Mathematics requirements (or see | 3.0 |
| | degree list) | |
| | Free electives | 10.0 |
| | Term Credits | 13.0 |
| | Total Credits (minimum) | 180.0 |
| | | |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Mathematics

Bachelor of Science Degree: 180.0 credits

Degree Requirements

Incoming students, 2011/2012

General education requirements

| CS 121 | Computational Lab I | | 1.0 |
|-----------------|--------------------------------|------|-----|
| CS 122 | Computational Lab II | | 1.0 |
| CS 123 | Computational Lab III | | 1.0 |
| CS 131 | Computer Programming A | | 3.0 |
| CS 132 | Computer Programming B | | 3.0 |
| BIO | Any Biology course | | 4.0 |
| СНЕМ | 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 elec | ctives | 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 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| MATH 301 | Numerical Analysis II | 3.0 |
|-------------|--------------------------------|-----|
| MATH 305 | Optimization Theory | 4.0 |
| MATH 311 | Probability and Statistics I | 4.0 |
| MATH 312 | Probability and Statistics II | 4.0 |
| MATH 316 | Symbolic Software | 3.0 |
| MATH 318 WI | Statistical Software | 3.0 |
| MATH 321 | Vector Calculus | 4.0 |
| MATH 322 | Complex Variables | 4.0 |
| MATH 323 | Partial Differential Equations | 4.0 |
| MATH 331 | Abstract Algebra I | 4.0 |
| MATH 332 | Abstract Algebra II | 3.0 |
| MATH 401 | Elements of Modern Analysis I | 3.0 |
| MATH 402 | Elements of Modern Analysis II | 3.0 |

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

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

3141 Chestnut Street, Philadelphia, PA 19104 catalog@drexel.edu •

Recommended Plan Of Study

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

| Term 1 | | Credits |
|--------------------|--------------------------------|---------|
| CS 121 | Computation Lab I | 1.0 |
| CS 131 | Computer Programming A | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Any biology (BIO) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 2 | | Credits |
| CS 122 | Computation Lab II | 1.0 |
| CS 132 | Computer Programming B | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Any chemistry (CHEM) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 3 | | Credits |
| CS 123 | Computation Lab III | 1.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| <u>MATH 123</u> | Calculus III | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| | Any physics (PHYS) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| | Linear Algebra | 4.0 |
| MATH 220 | 3 | 3.0 |
| | Social science electives | 6.0 |
| | Term Credits | 16.0 |
| | | |
| Term 5 | DW CLE C | Credits |
| | Differential Equations | 4.0 |
| | Discrete Mathematics | 3.0 |
| MATH 321 | Vector Calculus | 4.0 |
| | Social science elective | 3.0 |
| | Humanities elective | 3.0 |
| | Term Credits | 17.0 |
| Torm 6 | | Credits |
| Term 6 MATH 311 | Probability and Statistics I | 4.0 |
| MATH 331 | Abstract Algebra I | |
| IMM I IT JOI | - | 4.0 |
| | Social science elective | 3.0 |

| | Humanities elective | 3.0 |
|----------|---|---------|
| | Term Credits | 14.0 |
| | | |
| Term 7 | | Credits |
| MATH 312 | Probability and Statistics II | 4.0 |
| MATH 332 | Abstract Algebra II | 3.0 |
| | Humanities elective | 3.0 |
| | Social science elective | 3.0 |
| | Free 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 |
| | 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 | 11.0 |
| | Term Credits | 14.0 |
| | | |
| | Total Credits (minimum) | 180.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|---------------------------------------|---------|
| CS 121 | Computation Lab I | 1.0 |
| CS 131 | Computer Programming A | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Any biology (BIO) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 2 | | Credits |
| CS 122 | Computation Lab II | 1.0 |
| CS 132 | Computer Programming B | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Any chemistry (CHEM) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 3 | | Credits |
| CS 123 | Computation Lab III | 1.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 123 | Calculus III | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| | Any physics (PHYS) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 201 | Linear Algebra | 4.0 |
| MATH 220 | | 3.0 |
| | Social science electives | 6.0 |
| | Term Credits | 16.0 |
| | | |
| Term 5 | | Credits |
| MATH 210 | • | 4.0 |
| MATH 221 | Discrete Mathematics | 3.0 |
| MATH 321 | Vector Calculus | 4.0 |
| | Social science elective | 3.0 |
| | Humanities elective | 3.0 |
| | Term Credits | 17.0 |
| Term 6 | | Credits |
| MATH 300 | Numerical Analysis I | 4.0 |
| MATH 311 | | 4.0 |
| MATH 323 | • | 4.0 |
| | · · · · · · · · · · · · · · · · · · · | |

| | Social science elective | 3.0 |
|-----------------|---|---------|
| | Term Credits | 15.0 |
| | | |
| Term 7 | | Credits |
| | Introduction to Optimization Theory | 4.0 |
| MATH 312 | Probability and Statistics II | 4.0 |
| | Humanities elective | 3.0 |
| | Social science elective | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 17.0 |
| | | |
| Term 8 | | Credits |
| | Complex Variables | 4.0 |
| <u>MATH 401</u> | Elements of Modern Analysis I | 3.0 |
| | Free elective | 3.0 |
| | Humanities elective | 3.0 |
| | Social science elective | 3.0 |
| | Term Credits | 16.0 |
| Term 9 | | Credits |
| | Mathematical Applications of Statistical Software | 3.0 |
| | Elements of Modern Analysis II | 3.0 |
| WATTI 402 | Free electives | |
| | Term Credits | 7.0 |
| | Term Creans | 13.0 |
| Term 10 | | Credits |
| MATH 316 | Mathematical Applications of Symbolic Software | 3.0 |
| MATH 331 | Abstract Algebra I | 4.0 |
| | Free electives | 7.0 |
| | Term Credits | 14.0 |
| | Tomi Ground | |
| Term 11 | | Credits |
| MATH 301 | Numerical Analysis II | 3.0 |
| MATH 332 | Abstract Algebra II | 3.0 |
| | Free electives | 7.0 |
| | Term Credits | 13.0 |
| | | |
| Term 12 | | Credits |
| | Free electives | 11.0 |
| | Term Credits | 11.0 |
| | Total Credits (minimum) | 180.0 |
| | rotar oreans (minimum) | 100.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

Recommended Plan Of Study

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

| Term 1 | | Credits |
|-----------------|--|---------|
| CS 121 | Computation Lab I | 1.0 |
| CS 131 | Computer Programming A | 3.0 |
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Any biology (BIO) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 2 | | Credits |
| <u>CS 122</u> | Computation Lab II | 1.0 |
| <u>CS 132</u> | Computer Programming B | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Any chemistry (CHEM) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 3 | | Credits |
| CS 123 | Computation Lab III | 1.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| MATH 123 | Calculus III | 4.0 |
| MATH 200 | Multivariate Calculus | 4.0 |
| | Any physics (PHYS) course | 4.0 |
| | Term Credits | 16.0 |
| | | |
| Term 4 | | Credits |
| COM 230 | Techniques of Speaking | 3.0 |
| MATH 201 | 3.00 | 4.0 |
| MATH 220 | Introduction to Mathematical Reasoning | 3.0 |
| | Social science electives | 6.0 |
| | Term Credits | 16.0 |
| | | |
| Term 5 | | Credits |
| | Differential Equations | 4.0 |
| MATH 221 | Discrete Mathematics | 3.0 |
| <u>MATH 321</u> | Vector Calculus | 4.0 |
| | Social science elective | 3.0 |
| | Humanities elective | 3.0 |
| | Term Credits | 17.0 |
| Term 6 | | Credits |
| MATH 300 | Numerical Analysis I | 4.0 |
| MATH 311 | Probability and Statistics I | 4.0 |
| | Humanities elective | 3.0 |
| | Humanides elective | 3.0 |

| Term 7 | | Free elective | 3.0 |
|--|----------|---|---------|
| Term 7 | | Social science elective | 3.0 |
| MATH 322 Complex Variables 4.1 | | Term Credits | 17.0 |
| MATH 331 Abstract Algebra I 4.1 Free elective 3. Social science elective 3. Humanities elective 3. Term Credits 17. Term 8 Credit MATH 312 Probability and Statistics II 4. MATH 316 Mathematical Applications of Symbolic Software 3. MATH 322 Abstract Algebra II 3. Free elective 3. Social science elective 3. Term Credits 16. Term 3. Credit MATH 301 Numerical Analysis II 3. MATH 305 Introduction to Optimization Theory 4. Free electives 6. 7. Term Credits 13. Term Credits 13. Term Credits 11. Term Credits 11. Term Credits 12. Term Credits 12. Term Credits 13. Term Credits 12. Term Credits 13. < | Term 7 | | Credits |
| Free elective 3.1 | MATH 322 | Complex Variables | 4.0 |
| Social science elective | MATH 331 | Abstract Algebra I | 4.0 |
| Humanities elective | | Free elective | 3.0 |
| Term Credits | - | Social science elective | 3.0 |
| Term 8 | | Humanities elective | 3.0 |
| MATH 312 Probability and Statistics II 4.I MATH 316 Mathematical Applications of Symbolic Software 3.I MATH 332 Abstract Algebra II 3.I Free elective 3.I Social science elective 3.I Term Credits 16. Term 9 Credit MATH 301 Numerical Analysis II 3.I MATH 305 Introduction to Optimization Theory 4.I Free electives 6.I 7.I Term Credits 13.I Term 10 Credit MATH 401 Elements of Modern Analysis I 3.I Free electives 8.I Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.I Free electives 9.I Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.I MATH 323 Partial Differential Equations 4.I Term Credits 13.I <td></td> <td>Term Credits</td> <td>17.0</td> | | Term Credits | 17.0 |
| MATH 312 Probability and Statistics II 4.I MATH 316 Mathematical Applications of Symbolic Software 3.I MATH 332 Abstract Algebra II 3.I Free elective 3.I Social science elective 3.I Term Credits 16. Term 9 Credit MATH 301 Numerical Analysis II 3.I MATH 305 Introduction to Optimization Theory 4.I Free electives 6.I 7.I Term Credits 13.I Term 10 Credit MATH 401 Elements of Modern Analysis I 3.I Free electives 8.I Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.I Free electives 9.I Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.I MATH 323 Partial Differential Equations 4.I Term Credits 13.I <td>Term 8</td> <td></td> <td>Credits</td> | Term 8 | | Credits |
| MATH 316 Mathematical Applications of Symbolic Software 3.1 MATH 332 Abstract Algebra II 3.1 Free elective 3.1 Social science elective 3.1 Term Credits 16. Term Credits MATH 301 Numerical Analysis II 3.1 MATH 305 Introduction to Optimization Theory 4.1 Free electives 6.1 7 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.1 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.1 Free electives 9.1 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.1 MATH 323 Partial Differential Equations 4.1 Free electives 6.1 Term Credits 13. | | Probability and Statistics II | 4.0 |
| MATH 332 Abstract Algebra II 3.1 Free elective 3.1 Social science elective 3.1 Term Credits 16. Term 9 Credit MATH 301 Numerical Analysis II 3.1 MATH 305 Introduction to Optimization Theory 4.1 Free electives 6.1 7.2 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.1 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.1 Free electives 9.1 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.1 MATH 323 Partial Differential Equations 4.1 Free electives 6.1 Term Credits 13. | MATH 316 | | 3.0 |
| Free elective | | * | 3.0 |
| Social science elective 3.1 Term Credits 16. Term 9 | | • | 3.0 |
| Term 9 Credit MATH 301 Numerical Analysis II 3.1 MATH 305 Introduction to Optimization Theory 4.1 Free electives 6.1 Term Credits 13.1 Term 10 Credit MATH 401 Elements of Modern Analysis I 3.1 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.1 Free electives 9.1 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.1 MATH 323 Partial Differential Equations 4.1 Free electives 6.6 Term Credits 13. | | Social science elective | 3.0 |
| MATH 301 Numerical Analysis II 3.0 MATH 305 Introduction to Optimization Theory 4.0 Free electives 6.0 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.0 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.0 Free electives 9.0 Term Credits 12. Term 12 Credit 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 Credits | 16.0 |
| MATH 301 Numerical Analysis II 3.0 MATH 305 Introduction to Optimization Theory 4.0 Free electives 6.0 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.0 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.0 Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | | |
| MATH 305 Introduction to Optimization Theory 4.4 Free electives 6.6 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.0 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.1 Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.6 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | | Credits |
| Free electives 6.0 Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3.0 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.0 Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | | 3.0 |
| Term Credits 13. Term 10 Credit MATH 401 Elements of Modern Analysis I 3. Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3. Free electives 9. Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3. MATH 323 Partial Differential Equations 4. Free electives 6. Term Credits 13. | MATH 305 | Introduction to Optimization Theory | 4.0 |
| Term 10 Credit MATH 401 Elements of Modern Analysis I 3.0 Free electives 8.1 Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.0 Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | | 6.0 |
| MATH 401 Elements of Modern Analysis I Free electives 8. Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3. Free electives 9. Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3. MATH 323 Partial Differential Equations 4. Free electives 6. Term Credits 13. | | Term Credits | 13.0 |
| MATH 401 Elements of Modern Analysis I Free electives 8. Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3. Free electives 9. Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3. MATH 323 Partial Differential Equations 4. Free electives 6. Term Credits 13. | Term 10 | | Credits |
| Free electives Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II Free electives 7. Term Credits 12. Term 12 MATH 318 Mathematical Applications of Statistical Software MATH 323 Partial Differential Equations Free electives Free electives 6.0 Term Credits 13. | | Flements of Modern Analysis I | 3.0 |
| Term Credits 11. Term 11 Credit MATH 402 Elements of Modern Analysis II 3.0 Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | · · · · · · · · · · · · · · · · · · · | 8.0 |
| MATH 402 Elements of Modern Analysis II Free electives 9.6 Term Credits 12. Term 12 MATH 318 Mathematical Applications of Statistical Software MATH 323 Partial Differential Equations Free electives 6.6 Term Credits 13. | | | 11.0 |
| MATH 402 Elements of Modern Analysis II Free electives 9.6 Term Credits 12. Term 12 MATH 318 Mathematical Applications of Statistical Software MATH 323 Partial Differential Equations Free electives 6.6 Term Credits 13. | | | |
| Free electives 9.0 Term Credits 12. Term 12 Credit MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13. | Term 11 | | Credits |
| Term Credits 12. Term 12 MATH 318 Mathematical Applications of Statistical Software MATH 323 Partial Differential Equations Free electives 6. Term Credits 13. | MATH 402 | Elements of Modern Analysis II | 3.0 |
| Term 12 MATH 318 Mathematical Applications of Statistical Software 3.0 MATH 323 Partial Differential Equations 4.0 Free electives 6.0 Term Credits 13.0 | | 1100 010011100 | 9.0 |
| MATH 318Mathematical Applications of Statistical Software3.0MATH 323Partial Differential Equations4.0Free electives6.0Term Credits13.0 | | Term Credits | 12.0 |
| MATH 318Mathematical Applications of Statistical Software3.0MATH 323Partial Differential Equations4.0Free electives6.0Term Credits13.0 | Term 12 | | Credits |
| MATH 323Partial Differential Equations4.Free electives6.Term Credits13. | | Mathematical Applications of Statistical Software | 3.0 |
| Free electives 6. Term Credits 13. | | | 4.0 |
| Term Credits 13. | | • | 6.0 |
| Total Credits (minimum) | | | 13.0 |
| rotal Oleuka Hillimulli | | Total Credits (minimum) | 180.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Philosophy

About the Major

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

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

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

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

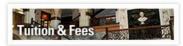
For more information about the Philosophy major, visit the Department of English and Philosophy page.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Philosophy

Bachelor of Arts Degree: 182.0 - 187.0 credits

Required Courses

Incoming students, 2011/2012

| College of Arts and Sciences Requirements | | 71.0 - 76.0 Credits | |
|--|---------------------------|---------------------|-----|
| ENGL 101 | Expository Writing and I | Reading | 3.0 |
| ENGL 102 | Persuasive Writing and | Reading | 3.0 |
| ENGL 103 | Analytical Writing and R | eading | 3.0 |
| CHEM 201 | Why Things Work: Ever | yday Chemistry | 4.0 |
| MATH 101 | Introduction to Analysis | * | 4.0 |
| MATH 102 | Introduction to Analysis | ** | 4.0 |
| PHIL 101 | Introduction to Western | Philosophy | 3.0 |
| PHIL 102 | Introduction to Eastern I | Philosophy | 3.0 |
| PHIL 105 | Critical Reasoning | | 3.0 |
| PHYS 135 | How Things Work | | 3.0 |
| UNIV 101 | The Drexel Experience | | 3.0 |
| Two studies in diversity electives | | 6.0 | |
| Two internation | nal studies electives | 6.0 - 8.0 | |
| Four social and electives | d behavioral sciences | 12.0-16.0 | |

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

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

Students select two of the following:

| ARTH 101 | History of Art I: Ancient to Medieval | 3.0 |
|----------|---|-----|
| ARTH 102 | History of Art II: Renaissance to 18th Century | 3.0 |
| ARTH 103 | History of Art III: Early to Late Modern Art | 3.0 |

Language Requirement

| 201 language course*** | 4.0 |
|------------------------|-----|
| 202 language course | 4.0 |

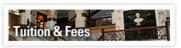
^{***}Presupposes a level of success in the placement examination warranting enrollment at this language level. Students are encouraged to pursue language instruction in "the languages of Western Philosophy;" thus, French, German, Italian and Spanish would be recommended. ("Classical" Greek and Latin are not taught











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| Major Require | ments | 63.0 Credits |
|----------------|--|--------------|
| COM 230 | Techniques of Speaking | 3.0 |
| PHIL 111 | Propositional (Zero-Order) Logic | 3.0 |
| PHIL 201 | History of Philosophy I | 3.0 |
| PHIL 202 | History of Philosophy II | 3.0 |
| PHIL 203 | History of Philosophy III | 3.0 |
| PHIL 207 | Predicate (First-Order) Logic | 3.0 |
| PHIL 211 | Metaphysics | 3.0 |
| PHIL 221 | Epistemology | 3.0 |
| PHIL 231 | Aesthetics | 3.0 |
| PHIL 251 | Ethics | 3.0 |
| PHIL 361 | Philosophy of Science | 3.0 |
| PHIL 431 WI | Seminar in Rationalism and Empiricism | 3.0 |
| PHIL 481 WI | Seminar in a Philosophical School‡ | 3.0 |
| PHIL 485 WI | Seminar in a Major Philosopher‡ | 3.0 |
| PHIL 497 WI | Senior Project I: Research and Thesis Formulation | 3.0 |
| PHIL 498 WI | Senior Project II: Argument Construction | 3.0 |
| PHIL 499 WI | Senior Project III: Criticism, Defense & Replies | 3.0 |
| | owing courses: Philosophy of the Social Sciences | 3.0 |
| PHIL 391 | Philosophy of Religion | 3.0 |
| | owing courses: | 3. |
| PHIL 425 WI | Seminar in Medieval Philosophy | 3.0 |
| DI III 404 14" | Seminar in Ancient Philosophy | 3.0 |
| PHIL 421 Wi | | |
| | owing courses: | |
| | owing courses: Seminar in Contemporary Philosophy | 3.0 |

Ethics electives:

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

| Electives | | 48.0 Credits |
|----------------|------|--------------|
| Free electives | 48.0 | <u>.</u> |

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

BA Philosophy
4 YR UG No Co-op Concentration

| Term 1 | | Credits |
|-----------------|--|-----------|
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 101 | Introduction to Analysis I | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| PHIL 102 or | Introduction to Eastern Philosophy | 3.0 |
| PHIL 101 | Introduction to Western Philosophy | 3.0 |
| | Language 201 (See degree requirements for note about language options) | 4.0 |
| | Term Credits | 15.0 |
| Term 2 | | Credits |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| | Introduction to Analysis II | 4.0 |
| PHIL 105 | Critical Reasoning | 3.0 |
| UNIV 101 | The Drexel Experience | 2.0 |
| OITIV 101 | Language 202 | 4.0 |
| | Term Credits | 16.0 |
| | Term Credits | 10.0 |
| Term 3 | | Credits |
| CHEM 201 | Why Things Work: Everyday Chemistry | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PHIL 111 | Propositional (zero-order) Logic | 3.0 |
| PHIL 251 | Ethics | 3.0 |
| | Social science elective | 3.0-4.0 |
| | Term Credits | 15.0-16.0 |
| | | 1010 1010 |
| Term 4 | | Credits |
| PHIL 201 | History of Western Philosophy I | 3.0 |
| PHIL 207 | Predicate (first-order) Logic | 3.0 |
| ARTH 102 or | History of Art II: High Renaissance to Modern | 3.0 |
| ARTH 101 | - | 3.0 |
| | Social science elective | 3.0-4.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 15.0-16.0 |
| Term 5 | | Credits |
| PHIL 202 | Histtory of Western Philosophy II | 3.0 |
| PHIL 211 | Metaphysics | 3.0 |
| PHYS 135 | How Things Work | 4.0 |
| ARTH 103 | History of Art- Early to Late Modern | 3.0 |
| or | Thistory of Art- Larry to Late mouern | 3.0 |
| ARTH 102 | History of Art II: High Renaissance to Modern | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 16.0 |
| | | |

| Term 6 | | Credits |
|-----------------------|--|-------------|
| COM 230 | Techniques of Speaking | 3.0 |
| PHIL 203 | History of Western Philosophy III | 3.0 |
| PHIL 221 | Epistemology | 3.0 |
| | Social science elective | 3.0-4.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0-16.0 |
| | | |
| Term 7 | | Credits |
| PHIL 231 | Aesthetics | 3.0 |
| | Social science elective | 3.0-4.0 |
| , | Free electives | 6.0 |
| | Professional ethics elective (See Degree requirements for list | 3.0 |
| | of options.) | 3.0 |
| | Term Credits | 15.0-16.0 |
| | | |
| Term 8 | | Credits |
| PHIL 361 | Philosophy of Science | 3.0 |
| <u>PHIL 481</u> | Seminar in a Philosophical School or Movement | 3.0 |
| | Free electives | 6.0 |
| | International studies elective | 3.0-4.0 |
| | Term Credits | 15.0-16.0 |
| | | |
| Term 9 | | Credits |
| <u>PHIL 485</u> | Seminar in a Major Philosopher | 3.0 |
| PHIL 391 | Philosophy of Religion | 3.0 |
| or | | |
| PHIL 371 | Philosophy of Social Sciences | 3.0 |
| | International studies elective | 3.0-4.0 |
| | Free electives | 6.0 |
| | Term Credits | 15.0-16.0 |
| Taum 40 | | Oue dite |
| Term 10 | Conion Forest I. Donorosk 9. Thoris | Credits |
| PHIL 497 | Senior Essay I: Research & Thesis | 3.0 |
| PHIL 425 | Seminar in Medieval Philosophy | 3.0 |
| or <u>PHIL 421</u> | Seminar in Ancient Philosophy | 3.0 |
| FIIIL 421 | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | remi oreans | 13.0 |
| Term 11 | | Credits |
| PHIL 431 | Seminar in Rationalism & Empiricism | 3.0 |
| PHIL 498 | Senior Essay II: Argument Construction | 3.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | Torm Ground | 10.0 |
| Term 12 | | Credits |
| PHIL 499 | Senior Essay III: Defense | 3.0 |
| PHIL 465 | Seminar in American Philosophy | 3.0 |
| or | - Community and Community | 0.0 |
| PHIL 461 | Seminar in Contemporary Philosophy | 3.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | | |
| | Total Credits (minimum) | 182.0-188.0 |
| | | |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Physics

About the Program

Drexel's undergraduate program provides a solid foundation in physics suitable for graduate study or to branch out into other scientific or technical disciplines. The physics program offers an innovative curriculum in a top-notch learning environment: small class sizes, personal input from faculty, and close interaction with researchers who are leaders in their fields. Students will explore the span of universal phenomenon—from the farthest reaches of astrophysics and cosmology, to molecular biophysics and subatomic particle physics— providing a solid foundation for continued study and exploration. Most undergraduates actively participate in research projects, including co-authoring publications and presenting results at conferences

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

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

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

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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Physics

Dual Degree Bachelor's Programs

With careful planning, students can complete two full degrees in the time usually required to complete one. The double major option works best in closely related areas. For detailed information the student should contact his or her advisor.

Bachelor's/Master's Dual Degree Program

Exceptional students can also pursue a master of science degree in the same period as the bachelor of science.

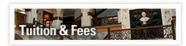
For more information, visit the Department of Physics.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Physics
Bachelor of Science Degree: minimum of 185.0 credits

Required Courses

Incoming students, 2011/2012

General education requirements

| ENGL 101 | Expository Writing and Reading | | 3.0 |
|--------------------|--------------------------------|------|-----|
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| UNIV 101 | The Drexel Experience | | 2.0 |
| Technical elective | е | 3.0 | |
| Liberal studies el | lectives* | 9.0 | |
| Business elective | es | 8.0 | |
| Free electives | | 12.0 | |

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

Mathematics/computer science requirements

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

Chemistry requirements

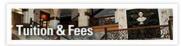
| CHEM 101 | General Chemistry I | 3.5 |
|----------|-----------------------|-----|
| CHEM 102 | General Chemistry II | 4.5 |
| BIO 122 | Cells and Genetics | 4.5 |
| CHEM 103 | General Chemistry III | 5.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Physics requirements

| PHYS 113 | Contemporary Physics I | 5.0 |
|-------------|--------------------------------------|-----|
| PHYS 114 | Contemporary Physics II | 5.0 |
| PHYS 115 | Contemporary Physics III | 5.0 |
| PHYS 105 | Computational Physics I | 3.0 |
| PHYS 160 | Introduction to Scientific Computing | 3.0 |
| PHYS 217 | Thermodynamics | 4.0 |
| PHYS 223 WI | Modern Physics Laboratory | 3.0 |
| PHYS 226 WI | Instrumentation for Scientists I | 3.0 |
| PHYS 305 | Computational Physics II | 3.0 |
| PHYS 311 | Classical Mechanics I | 4.0 |
| PHYS 312 | Classical Mechanics II | 4.0 |
| PHYS 317 | Statistical Mechanics | 3.0 |
| PHYS 321 | Electromagnetic Fields I | 4.0 |
| PHYS 322 | Electromagnetic Fields II | 4.0 |
| PHYS 324 | Topics in Mathematical Physics | 3.0 |
| PHYS 326 | Quantum Mechanics I | 4.0 |
| PHYS 327 | Quantum Mechanics II | 4.0 |
| PHYS 328 | Advanced Laboratory | 3.0 |
| PHYS 408 | Physics Seminar* | 3.0 |
| PHYS 428 | Quantum Mechanics III | 4.0 |
| PHYS 491 | Senior Research I | 3.0 |
| PHYS 492 | Senior Research II | 3.0 |
| PHYS 493 WI | Senior Research III | 3.0 |

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

Physics lab requirements

3.0 - 4.0

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

Topical course requirements

12.0

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

Topical courses

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

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

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid "clustering" these courses near the end of their matriculation. 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

BS Physics
5 YR UG Co-op Concentration

| Term 1 | | Credits |
|-----------------|--------------------------------------|---------|
| ENGL 101 | Expository Writing and Reading | 3.0 |
| MATH 121 | Calculus I | 4.0 |
| PHYS 113 | Contemporary Physics I | 5.0 |
| PHYS 160 | Introduction to Scientific Computing | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| CS 171 | Computer Programming I | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| MATH 122 | Calculus II | 4.0 |
| PHYS 114 | Contemporary Physics II | 5.0 |
| <u>UNIV 101</u> | The Drexel Experience | 1.0 |
| | Term Credits | 16.0 |
| Term 3 | | Credits |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| | Calculus III | 4.0 |
| PHYS 105 | Computational Physics I | 3.0 |
| PHYS 115 | Contemporary Physics III | 5.0 |
| | Term Credits | 15.0 |
| | | |
| 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 |
| PHYS 223 | Modern Physics Laboratory | 3.0 |
| | Term Credits | 18.5 |
| Term 5 | | Credits |
| | General Chemistry II | 4.5 |
| | Differential Equations | 4.0 |
| | Computational Physics II | 3.0 |
| PHYS 324 | Topics in Mathematical Physics | 3.0 |
| | Term Credits | 14.5 |
| | | |
| Term 6 | | Credits |
| PHYS 311 | Classical Mechanics I | 4.0 |
| PHYS 321 | Electromagnetic Fields I | 4.0 |
| CHEM 103 | General Chemistry III | 5.0 |
| or | | |
| BIO 122 | Cells and Genetics | 4.5 |
| | Liberal studies elective | 3.0 |
| | | |

| Term 7 PHYS 312 Classical Mechanics II PHYS 322 Electromagnetic Fields II PHYS 328 Advanced Laboratory Business elective Physics lab requirement (See degree requirements for options) Term Credits Term 8 PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) 2.0-3 | 4.0 4.0 3.0 4.0 3.0 8.0 |
|--|---|
| PHYS 312 Classical Mechanics II PHYS 322 Electromagnetic Fields II PHYS 328 Advanced Laboratory Business elective Physics lab requirement (See degree requirements for options) Term Credits 17.0-16 Term 8 Cred PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 4.0 4.0 3.0 4.0 3.0 8.0 8.0 4.0 3.0 4.0 3.0 |
| PHYS 322 Electromagnetic Fields II PHYS 328 Advanced Laboratory Business elective Physics lab requirement (See degree requirements for options) Term Credits 17.0-16 Term 8 Cred PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 4.0 3.0 4.0 3.0 8.0 lits 3.0 4.0 3.0 |
| PHYS 328 Advanced Laboratory Business elective Physics lab requirement (See degree requirements for options) Term Credits 17.0-16 Term 8 PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 4.0 3.0 8.0 lits 3.0 4.0 |
| Business elective Physics lab requirement (See degree requirements for options) Term Credits 17.0-16 Term 8 Cred PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 4.0 3.0 8.0 lits 3.0 4.0 3.0 |
| Physics lab requirement (See degree requirements for options) Term Credits 17.0-16 Term 8 Cred PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 8.0 lits 3.0 4.0 3.0 |
| options) Term Credits 17.0-16 Term 8 PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 8.0 lits 3.0 4.0 3.0 |
| Term 8 PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 8.0 lits 3.0 4.0 3.0 |
| Term 8 PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | lits 3.0 4.0 3.0 |
| PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 4.0 3.0 |
| PHYS 226 Instrumentation for Scientists I PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 4.0 3.0 |
| PHYS 326 Quantum Mechanics I Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 4.0 3.0 |
| Free elective Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 |
| Liberal studies elective Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | |
| Physics lab requirement (See degree requirements for options) Topical Physics course (See degree requirements) | 3.0 |
| options) Topical Physics course (See degree requirements) | |
| options) Topical Physics course (See degree requirements) | 2 0 |
| | 3.0 |
| Term Credits 18.0-1 | 3.0 |
| 10.0-1 | 9.0 |
| | |
| Term 9 Cred | lits |
| PHYS 317 Statistical Mechanics | 3.0 |
| PHYS 327 Quantum Mechanics II | 4.0 |
| Topical Physics course (See degree requirements) | 3.0 |
| Liberal studies elective | 3.0 |
| Physics lab requirement (See degree requirements for 2.0- | 2 0 |
| options) | 3.0 |
| Term Credits 15.0-10 | 6.0 |
| | |
| Term 10 Cred | lits |
| PHYS 408 Physics Seminar | 1.0 |
| PHYS 428 Quantum Mechanics III | 4.0 |
| PHYS 491 Senior Research I | 3.0 |
| Technical elective | 3.0 |
| Topical Physics course (See degree requirements) | 3.0 |
| | 4.0 |
| | |
| Term 11 Cred | lits |
| | 1.0 |
| PHYS 408 Physics Seminar | |
| <u>.</u> | 3.0 |
| PHYS 492 Senior Research II | 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) | _ |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective | 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective | 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective | 3.0 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective | 3.0 3.0 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective Term Credits Term 12 Cred | 3.0 3.0 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective Term Credits Term 12 PHYS 408 Physics Seminar | 3.0 3.0 3.0 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective Term Credits Term 12 PHYS 408 Physics Seminar PHYS 493 Senior Research III | 3.0 3.0 3.0 3.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective Term Credits Term 12 PHYS 408 Physics Seminar PHYS 493 Senior Research III Free elective | 3.0 3.0 3.0 3.0 1its 1.0 3.0 |
| PHYS 492 Senior Research II Topical Physics course (See degree requirements) Free elective Technical elective Term Credits Term 12 Cred PHYS 408 Physics Seminar PHYS 493 Senior Research III Free elective Business elective | 3.0 3.0 3.0 3.0 1its 1.0 3.0 |

Total Credits (minimum)

185.0-188.0

Email

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Psychology

About the Major

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

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

Combined Bachelors/Masters Degree

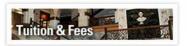
There is an accelerated MS program entitled the Psychology BS /MS Scholars Program to which undergraduates may apply. For more information, visit the Drexel University Department of Psychology homepage.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Psychology Bachelor of Science Degree: 182.0 credits

Required Courses

Incoming students, 2011/2012

College requirements

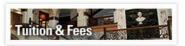
| ENGL 101 | Expository Writing and Reading | | 3.0 |
|---------------------------------------|---|-----|-----|
| ENGL 102 | Persuasive Writing and Reading | | 3.0 |
| ENGL 103 | Analytical Writing and Reading | | 3.0 |
| CS 161 | Introduction to Computing | | 3.0 |
| MATH 101 | Introduction to Analysis 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 | | 3.0 |
| Economics electi | ive | 4.0 | |
| Fine arts elective | 3 | 3.0 | |
| History electives | | 6.0 | |
| Philosophy elective | | 3.0 | |
| One of the follo | wing 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 follo | wing courses | 3.0 | |
| ENG 203 | Post-Colonial Literature I | | |
| ENG 204 | Post-Colonial Literature II | | |
| One of the following course sequences | | 8.0 | |
| BIO 107 | Cells, Genetics and Physiology | | 3.0 |
| BIO 108 | Cells, Genetics and Physiology Lab Biological Diversity, Ecology and | | 1.0 |
| BIO 109 | Evolution Biological Diversity, Ecology and Biological Diversity, Ecology and | | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| BIO 110 | Evolution Lab | 1.0 |
|---|--|--|
| or | | |
| CHEM 101 CHEM 102 | General Chemistry I General Chemistry II | 3.5 4.5 |
| or | | |
| PHYS 103 | General Physics I | 4.0 |
| PHYS 104 | General Physics II | 4.0 |
| Other courses | S | |
| Total free elec | ctive credits 53.0 |) |
| | requirements hology requirements | |
| PSY 111 | Preprofessional Psychology I* | 3.0 |
| PSY 112 | Preprofessional Psychology II* | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- | | |
| 101 credit do r use their appro to satisfy the g additional 100- | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- | not take the PSY 111and PSY 112 series, but byed credit and a 100-level Psychology elective general Psychology requiremen, plus an elevel elective. | |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cou | not take the PSY 111and PSY 112 series, but be | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cour | not take the PSY 111and PSY 112 series, but byed credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course suirements (Two of the rises) Developmental Psychology | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cou | not take the PSY 111and PSY 112 series, but be | 3.0 3.0 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cour | not take the PSY 111and PSY 112 series, but byed credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course suirements (Two of the rises) Developmental Psychology | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cour PSY 120 PSY 140 PSY 150 | not take the PSY 111and PSY 112 series, but be | 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cour PSY 120 PSY 140 PSY 150 | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course suirements (Two of the rses) Developmental Psychology Approaches to Personality Introduction to Social Psychology | 3.0 3.0 3.0 |
| 101 credit do r use their appro to satisfy the g additional 100- Sociology/Ant Other courses 100-level requ following cour PSY 120 PSY 140 PSY 150 Required Psy | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course suirements (Two of the rses) Developmental Psychology Approaches to Personality Introduction to Social Psychology chology courses | 3.0 3.0 3.0 |
| 101 credit do ruse their approto satisfy the gadditional 100- Sociology/Ant Other courses 100-level required lowing courses PSY 120 PSY 140 PSY 150 Required Psy | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course Suirements (Two of the rses) Developmental Psychology Approaches to Personality Introduction to Social Psychology chology courses Physiological Psychology | 3.0 3.0 3.0 3.0 |
| 101 credit do ruse their approto satisfy the gadditional 100- Sociology/Ant Other courses 100-level required lowing courses PSY 120 PSY 140 PSY 150 Required Psy PSY 212 PSY 230 | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course Any Anthropology course Developmental Psychology Approaches to Personality Introduction to Social Psychology chology courses Physiological Psychology Psychology of Learning | 3.0 3.0 3.0 3.0 3.0 |
| 101 credit do ruse their approto satisfy the gadditional 100- Sociology/Anti Other courses 100-level required PSY 120 PSY 140 PSY 150 Required Psy PSY 212 PSY 230 PSY 240 WI | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course Any Anthropology course Developmental Psychology Approaches to Personality Introduction to Social Psychology chology courses Physiological Psychology Psychology of Learning Abnormal Psychology | 3.0 3.0 3.0 3.0 3.0 3.0 |
| 101 credit do ruse their approto satisfy the gadditional 100- Sociology/Ant Other courses 100-level required Psy 120 PSY 140 PSY 150 Required Psy 252 PSY 230 PSY 240 WI PSY 260 | not take the PSY 111and PSY 112 series, but oved credit and a 100-level Psychology elective leneral Psychology requiremen, plus an elevel elective. thropology requirements Any Sociology course Any Anthropology course Buirements (Two of the rises) Developmental Psychology Approaches to Personality Introduction to Social Psychology chology courses Physiological Psychology Psychology of Learning Abnormal Psychology Research Methods in Psychology | 3.0 |

Computer-Assisted Data Analysis I

3.0

PSY 364

| PSY 365 | Computer-Assisted Data Analysis II | 3.0 |
|---------|------------------------------------|-----|
| PSY 401 | History and Systems | 3.0 |

| Advanced Psycof the following | chology electives (Four 12.0 g courses) | |
|-------------------------------|---|-----|
| PSY 210 | Evolutionary Psychology | 3.0 |
| PSY 213 | Sensation and Perception | 3.0 |
| PSY 225 | Child Psychopathology | 3.0 |
| PSY 245 WI | Sports Psychology | 3.0 |
| PSY 250 WI | Industrial Psychology | 3.0 |
| PSY 252 | Death and Dying | 3.0 |
| PSY 262 | Science and Pseudoscience | 3.0 |
| PSY 310 | Drugs and Human Behavior | 3.0 |
| PSY 322 | Advanced Developmental Psychology | 3.0 |
| PSY 332 | Human Factors and Cognitive Engineering | 3.0 |
| PSY 337 | The Psychology of Human-Computer Interaction | 3.0 |
| PSY 342 | Counseling Psychology | 3.0 |
| PSY 350 | Advanced Social Psychology | 3.0 |
| PSY 355 | Health Psychology | 3.0 |
| PSY 356 | Women's Health Psychology | 3.0 |
| PSY 410 | Neuropsychology | 3.0 |
| PSY 440 | Advanced Personality Seminar | 3.0 |
| PSY 442 | Theories and Practice in Clinical Psychology | 3.0 |

Senior seminar sequence*

| PSY 490 WI | Psychology Senior Thesis I* | 4.0 |
|------------|-------------------------------|-----|
| PSY 491 WI | Psychology Senior Thesis II* | 4.0 |
| PSY 492 WI | Psychology Senior Thesis III* | 4.0 |

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

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on

the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

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 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| MATH 121 | Calculus I | 4.0 |
| or | | |
| <u>MATH 101</u> | Introduction to Math Analysis I | 4.0 |
| <u>CHEM 101</u> | General Chemistry I | 3.5 |
| or | | |
| PHYS 103 | General Physics I | 4.0 |
| or BIO 407 | Calle Constine 9 Physicians and PIO409 Leb | 4.0 |
| BIO 107 | Cells, Genetics & Physiology and BIO108 Lab Term Credits | 4.0 |
| | Term Credits | 15.5 |
| Term 2 | | Credits |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| PSY 112 | Preprofessional Psychology II | 3.0 |
| BIO 109 | Biological Diversity, Ecology & Evolution and BIO 110 Lab | 4.0 |
| or | | |
| CHEM 102 | General Chemistry II | 4.5 |
| or | | |
| PHYS 104 | General Physics II | 4.0 |
| MATH 102 | Introduction to Math Analysis II | 4.0 |
| or | Onlandon II | 4.0 |
| | Calculus II | 4.0 |
| PSY 120 | Developmental Psychology | 3.0 |
| or PSY 140 | Approaches to Personality | 3.0 |
| or | Approaches to reformanty | 0.0 |
| PSY 150 | Introduction to Social Psychology | 3.0 |
| | Term Credits | 17.0 |
| | | |
| Term 3 | | Credits |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| PSY 240 | Abnormal Psychology | 3.0 |
| PSY 120 | Developmental Psychology | 3.0 |
| or | | |
| <u>PSY 150</u> | Introduction to Social Psychology | 3.0 |
| or DCV 440 | Annuage to Denoughts | 2.0 |
| PSY 140 | Approaches to Personality | 3.0 |
| | Sociology/Anthropology elective (SOC or ANTH) Fine arts elective | 3.0 3.0 |
| | Term Credits | |
| | Term Oreans | 15.0 |
| Term 4 | | Credits |
| PSCI 100 | Introduction to Political Science | 4.0 |
| ENGL 200 | Classical to Medieval Literature | 3.0 |
| | | |

| | Romanticism to Modernism | 3.0 |
|--|--|--------------|
| Or ENGL 201 | Renaissance to the Enlightenment | 3.0 |
| LIVOL ZOT | Sociology/Anthropology elective (SOC or ANTH) | 3.0 |
| | Advanced Psychology courses (See degree requirements list) | 6.0 |
| | 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 | | |
| | Post-Colonial Literature II | 3.0 |
| PSY 212 | Physiological Psychology | 3.0 |
| or | | |
| PSY 230 | Psychology of Learning | 3.0 |
| | Philosophy (PHIL) elective Term Credits | 3.0 |
| | Term Credits | 18.0 |
| Torm 6 | | Cradita |
| Term 6 PSY 340 | Psychological Testing and Assessment | Credits |
| PSY 360 | Psychological Testing and Assessment Experimental Psychology | 3.0 |
| PSY 364 | Computer-Assisted Data Analysis I | 3.0 |
| PSY 230 | Psychology of Learning | 3.0 |
| or | Psychology of Learning | 3.0 |
| PSY 212 | Physiological Psychology | 3.0 |
| | Economics (ECON) elective | 4.0 |
| | Term Credits | 16.0 |
| | To the crown of the control of the c | 7070 |
| Term 7 | | Credits |
| PSY 365 | Computer-Assisted Data Analysis II | 3.0 |
| | Free electives | 9.5 |
| - | History elective | 3.0 |
| | Term Credits | 15.5 |
| | | |
| Term 8 | | Credits |
| - | History elective | 3.0 |
| | Advanced Psychology course (See degree requirements for | 2.0 |
| | list) | 3.0 |
| <u>, </u> | Free electives | 12.0 |
| | Term Credits | 18.0 |
| | | |
| Term 9 | | Credits |
| | Free electives | 9.0 |
| | Advanced Psychology course (See degree requirements for | 3.0 |
| | list) | 3.0 |
| | Term Credits | 12.0 |
| | | |
| Term 10 | | Credits |
| PSY 401 | History and Systems | 3.0 |
| | Free electives | 6.0 |
| | PSY 490 Senior Thesis I or adv. PSY elective (If electives are | 4.0 |
| | chosen, 12.0 credits in total are required.) | |
| | Term Credits | 13.0 |
| T | | A ""* |
| Term 11 | | Credits |

| | Free electives | 9. |
|---------|---|--------|
| | Term Credits | 13. |
| Term 12 | | Credit |
| | PSY 492 Senior Thesis III or adv. PSY eleare chosen, 12.0 credits in total are requ | ` |
| | Free electives | 9. |
| | Term Credits | 13. |
| | Total Credits (minimum) | 182. |

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Political Science

About the Major

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

Degrees Offered

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

The Bachelor of Science (BS) provides a framework for those students who prefer specific course requirements, including sequences in mathematics and the natural sciences.

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

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

Career Opportunities

The flexible programs allow students to shape a curriculum that meets their needs, whether they are preparing for the business world, graduate school in history or political science, an MBA or other business program, or law school.

Co-Op Experiences

History & Politics majors have a wide variety of co-op experiences from which to choose. Business and public utilities offer many lucrative possibilities, and local, state, and federal governments; museums and archives; and law firms present many additional interesting co-op placements. Pre-law students, for example, are especially eager to see the inside of a law office, whether the co-op job they receive is clerical or a more challenging paralegal assignment. These practical experiences in the "real" world can reinforce the lessons of the classroom, sharpen skills, and establish important contacts. Sample co-op positions include:

- Law clerk/paralegal, Joe Davidson, Attorney-at-Law, Philadelphia
- Research analyst, Legislative Office for Research Liaison, Harrisburg, PA
- Legislative intern, Corporate Public Affairs Division, Philadelphia Electric Company
- Assistant lobbyist, Government Relations Office, Drexel University
- Education intern, Philadelphia Museum of Art
- Researcher, Philadelphia Chamber of Commerce
- Assistant, Office of the Governor, Harrisburg, PA

Visit the Drexel Steinbright Career Development Center page for more detailed information on co-op and post-graduate opportunities.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Political Science

Bachelor of Arts Degree: 182.0 credits

Required Courses

Incoming students, 2011-2012

| requirements | 66.0 - 70.0 Credits | 5 |
|--------------------------------|--------------------------------|--|
| Expository Writing and Readin | ng | 3.0 |
| Persuasive Writing and Reading | ng | 3.0 |
| Analytical Writing and Reading | g | 3.0 |
| The Drexel Experience | | 2.0 |
| | 6.0-8.0 | |
| es* | 6.0-8.0 | |
| | Persuasive Writing and Reading | Expository Writing and Reading Persuasive Writing and Reading Analytical Writing and Reading The Drexel Experience 6.0-8.0 |

*Any Biology (BIO), Chemisitry (CHEM), Nutrition (NFS), Physics (PHYS) or

Foundation requirements

Environmental Science (ENVS) course.

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

| Core Political | Science Requirements 49.0 Credits | |
|----------------|--|-----|
| PSCI 110 | American Government I | 4.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| PSCI 130 | Research Methods in Political Science I | 4.0 |
| PSCI 140 | Introduction to Comparative Political Analysis | 4.0 |
| PSCI 150 | International Politics | 4.0 |
| PSCI 211 | American Government II | 4.0 |
| PSCI 220 | Constitutional Law I: Separation of Powers | 3.0 |
| PSCI 230 | Research Methods in Political Science II | 4.0 |
| PSCI 240 | Comparative Government | 3.0 |
| PSCI 250 | American Foreign Policy | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| PSCI 270 | Problems of Individual Liberty and Government Authority | 3.0 |
|----------|---|-----|
| | History Electives* | 9.0 |

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

Political Science Electives*

30.0 Credits

Free Electives

33.0 - 37.0 Credits

Writing-Intensive Course Requirements

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

A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

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

Recommended Plan Of Study

BA Political Science
4 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 |
| | Foreign language course (103-level or higher) | 4.0 |
| | Term Credits | 16.0 |
| Term 2 | | Credits |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| PSCI 140 | Intro Comp Political Analysis | 4.0 |
| UNIV 101 | The Drexel Experience | 1.0 |
| | Foreign language course (201-level or higher) | 4.0 |
| | Mathematics course | 3.0-4.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 18.0-19.0 |
| 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 | 4.0 |
| | Mathematics course | 3.0-4.0 |
| | Free elective | 2.0 |
| | Term Credits | 16.0-17.0 |
| | | |
| Term 4 | | Credits |
| PSCI 230 | Research Methods in Political Science II | 4.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | History elective (200-level and above HIST course) | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Diversity studies elective | 3.0 |
| | Term Credits | 16.0-17.0 |
| Term 5 | | Credits |
| PSCI 240 | Comparative Government | 3.0 |
| | Free elective | 2.0-3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Political Science elective (300-level and above PSCI course) | 3.0 |
| | History elective (200-level and above HIST course) | 3.0 |
| | Term Credits | 17.0-19.0 |
| Term 6 | | Credits |
| PSCI 211 | American Government II | 4.0 |
| 1 001 211 | International studies elective | 3.0 |
| | ווונכווומנוטוומו סנעטוכס כוכטנועכ | 3.0 |

| | Diversity studies elective | 3.0 |
|-----------------|--|-------------|
| • | History elective (200-level and above HIST course) | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 16.0 |
| | | |
| Term 7 | | Credits |
| PSCI 220 | Constitutional Law I: Separation of Powers | 3.0 |
| | Free elective | 3.0 |
| | International studies elective | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 8 | | Credits |
| PSCI 250 | American Foreign Policy | 3.0 |
| | Free elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Political Science elective (300-level and above PSCI course) | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| <u>PSCI 270</u> | Problems of Individual Liberty and Government Authority | 3.0 |
| | Political Science electives (300-level and above PSCI courses) | 6.0 |
| | Free electives | 5.0 |
| | Term Credits | 14.0 |
| | | |
| Term 10 | | Credits |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) | 0.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) | |
| | Free electives | 6.0 |
| | Term Credits | 12.0 |
| | | |
| Term 12 | | Credits |
| | Free electives | 6.0 |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) | |
| | Term Credits | 12.0 |
| | Total Credits (minimum) | 182.0-187.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Political Science

Bachelor of Science Degree: 182.0 credits

Required Courses

Incoming students, 2011-2012

* Sample Math seguences

| General education requirements | | | 62.0 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. 0.0 | |
|--|----------------------------------|-----|
| Additional math sequence options are available. Students should check with the Department. | | |
| MATH 101 | Introduction to Math Analysis I | 4.0 |
| MATH 102 | Introduction to Math Analysis II | 4.0 |
| or | | |
| MATH 121 | Calculus I | 4.0 |
| MATH 122 | Calculus II | 4.0 |

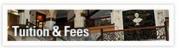
| Additional science sequence options are available. Check with theDepartment. | | |
|--|---|-----|
| BIO 107 | Cells, Genetics and Physiology | 3.0 |
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 110 | Biological Diversity, Ecology and Evolution Lab | 1.0 |
| or | | |
| CHEM 111 | General Chemistry I | 4.0 |
| CHEM 112 | General Chemistry II | 4.0 |
| or | | |
| PHYS 103 | General Physics I | 4.0 |
| PHYS 104 | General Physics II | 4.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Literature

Nonwestern literature requirement:

| | wing courses: 3.0 | |
|---|---|--|
| ENGL 203 WI | Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 204 | Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East | |
| Western literatu | re requirement: | |
| One of the follow | wing courses: 3.0 | |
| ENGL 200 WI ENGL 201 | Classical to Medieval Literature Renaissance to the Enlightenment | 3.0 |
| ENGL 202 WI | Romanticism to Modernism | 3.0 |
| ENGL 205 WI | American Literature I | 3. |
| 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. |
| Additional gene | eral requirements | |
| ANTH 101 | Cultural Diversity: Introduction to Cultural Anthropology | 3. |
| ANTH 110 | The Human Past | 3. |
| COM 150 | Mass Media and Society | 3. |
| ECON 201 | Principles of Microeconomics | |
| ECON 202 | Principles of Macroeconomics | |
| MUSC 130 | Introduction to Music | |
| PSY 101 | General Psychology | |
| | Introduction to Sociology | 3. |
| SOC 101 | | |
| | Critical Reasoning | |
| SOC 101 PHIL 105 STAT | | 3. |
| PHIL 105 STAT | Critical Reasoning | 3. |
| PHIL 105 STAT Core Political Se | Critical Reasoning Any 4-credit statistics course | 3.4.4.4. |
| PHIL 105 STAT Core Political Services 110 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits | 3. 4. |
| PHIL 105 STAT | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I | 3.4. |
| PHIL 105 STAT Core Political Service 110 PSCI 120 PSCI 130 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I History of Political Thought | 4. |
| PHIL 105 STAT Core Political Service PSCI 110 PSCI 120 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I History of Political Thought Research Methods in Political Science I Introduction to Comparative Political | 4. 4. 4. |
| PHIL 105 STAT Core Political Screen PSCI 110 PSCI 120 PSCI 130 PSCI 140 PSCI 150 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I History of Political Thought Research Methods in Political Science I Introduction to Comparative Political Analysis | 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4 |
| PHIL 105 STAT Core Political Sc PSCI 110 PSCI 120 PSCI 130 PSCI 140 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I History of Political Thought Research Methods in Political Science I Introduction to Comparative Political Analysis International Politics | 4. |
| PHIL 105 STAT Core Political Service PSCI 110 PSCI 120 PSCI 130 PSCI 140 PSCI 150 PSCI 211 | Critical Reasoning Any 4-credit statistics course cience Requirements 49.0 Credits American Government I History of Political Thought Research Methods in Political Science I Introduction to Comparative Political Analysis International Politics American Government II Constitutional Law I: Separation of | 4 4 4 4 4 |

Problems of Individual Liberty and

American Foreign Policy

3.0

PSCI 250

| PSCI 270 | Government Author | prity | 3.0 |
|-----------------|-------------------------|------------------------------------|-----|
| | History Electives* | | 9.0 |
| * Only 200-leve | el and above HIST cours | es will fulfill this requirement. | |
| Political Scien | ce Electives** | 30.0 Credits | |
| ** Only 300-lev | el and above PSCI cour | ses will fulfill this requirement. | |
| Free Electives | | 41.0 Credits | |



Drexel University Copyright © 2011. All rights reserved.

Recommended Plan Of Study

BS Political Science
4 YR UG Co-op Concentration

| 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 |
| <u>UNIV 101</u> | 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 |
| | Introduction to Analysis II | 4.0 |
| PHIL 105 | Critical Reasoning | 3.0 |
| PSCI 140 | Intro Comp 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 |
| PSCI 120 | History of Political Thought | 4.0 |
| PSCI 130 | Research Methods in Political Science I | 4.0 |
| PSY 101 | General Psychology I | 3.0 |
| | Term Credits | 14.0 |
| | Term Oreans | 14.0 |
| Term 4 | | Credits |
| MUSC 130 | Introduction to Music | 3.0 |
| PSCI 230 | Research Methods in Political Science II | 4.0 |
| SOC 101 | Introduction to Sociology | 3.0 |
| | Science sequence course 1 (See degree requirements list) | 4.0 |
| | Western literature survey course (see degree requirements for | 3.0 |
| | list of options) | |
| | Term Credits | 17.0 |
| Term 5 | | Credits |
| <u>PSCI 240</u> | Comparative Government | 3.0 |
| ENGL 204 | Post-Colonial Literature II | 3.0 |
| or | | |
| ENGL 203 | Post-Colonial Literature I | 3.0 |
| | Science sequence course 2 (See degree requirements list) | 4.0 |
| | Free elective | 2.0 |
| | History elective (200-level and above HIST course) | 3.0 |
| | Term Credits | 15.0 |
| Term 6 | | Credits |
| ECON 201 | Principles of Microeconomics | 4.0 |
| PSCI 211 | American Government II | 4.0 |
| | | |

| | The Human Past | 3.0 |
|-----------------|--|-------------|
| or | Interded to College Discoults | 0.0 |
| <u>ANTH 101</u> | Introduction to Cultural Diversity Free elective | 3.0 |
| | History elective (200-level and above HIST course) | 3.0 |
| | Term Credits | 3.0 17.0 |
| | Term Credits | 17.0 |
| Term 7 | | Credits |
| ECON 202 | Principles of Macroeconomics | 4.0 |
| PSCI 220 | Constitutional Law I | 3.0 |
| | Free elective | 2.0-3.0 |
| | Statistics elective | 4.0 |
| | History elective (200-level and above HIST course) | 3.0 |
| | Term Credits | 16.0-17.0 |
| | Tom Ground | 10.0 11.0 |
| Term 8 | | Credits |
| PSCI 250 | American Foreign Policy | 3.0 |
| | Free electives | 6.0 |
| | Political Science electives (300-level and above PSCI courses) | 6.0 |
| | 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 courses) | 6.0 |
| | Term Credits | 15.0 |
| | | |
| Term 10 | | Credits |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) | 0.0 |
| | Free electives | 9.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) | |
| | Free electives | 6.0 |
| | Term Credits | 12.0 |
| Taura 40 | | One al!! - |
| Term 12 | Para alasticas | Credits |
| | Free electives | 6.0 |
| | Political Science electives (300-level and above PSCI | 6.0 |
| | courses) Term Credits | 12.0 |
| | Term Oreans | 12.0 |
| | Total Credits (minimum) | 182.0-183.0 |
| | · · · · · · · · · · · · · · · · · · · | .02.0 100.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Accelerated Degree

BS/BA in History and MS in Science, Technology & Society

BS/BA in Political Science and MS in Science, Technology & Society

About the Program

Drexel University Permits undergraduate students in 5-year programs to apply for graduate programs while completing their undergraduate programs, allowing students to complete their master's degrees in a shorter amount of time.

The accelerated-degree program provides an opportunity to simultaneously earn both a BA or BS degree and an MS degree in Science, Technology & Society (two diplomas are awarded) in the time normally required to finish a bachelor's degree alone.

Students entering the program must:

- have and maintain a minimum of 3.0 grade point average throughout the program
- have no fewer than 90 earned credits
- have no more than 120 registered credits
- complete only 2 co-ops if in a BS/MS program.

The Department of History and Politics would especially like to encourage its own majors to consider the accelerated degree program in Science, Technology & Society.

For more information about the accelerated BA-BS/MS program, contact:

Lloyd Ackert MSTS Program Director 5023 Macalister Hall lta24@drexel.edu

Recommended Plan of Study

Students should work closely with faculty advisors in the Science, Technology & Society program to schedule an individualized plan of study for their accelerated degree completion.

The following is a sample plan of study for a student starting in pre-junior year, with 108 credit hours completed (based on a 5-year program in which the last co-op was dropped):

Dual Bachelor's Degree & MSTS Degree

222.0 minimum credits

Term 7

| Undergraduate courses | 13.0 | |
|--|------|--|
| 2 Science, Technology & Society courses* | 6.0 | |
| Total credits | 19.0 | |

Term 8

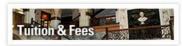
| Undergraduate courses | 13.0 |
|---|------|
| 2 Science, Technology & Society courses | 6.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| | Total credits | 19.0 | |
|----------|---|------|--|
| Term 9 | | | |
| | Undergraduate courses | 10.0 | |
| | 2 Science, Technology & Society courses | 6.0 | |
| | 1 graduate elective* | 3.0 | |
| | Total credits | 19.0 | |
| Term 10 | | | |
| | Undergraduate courses | 10.0 | |
| | 2 Science, Technology & Society courses | 6.0 | |
| HIST 696 | Seminar in Science, Technology, and Society | 3.0 | |
| | Total credits | 19.0 | |
| Term 11 | | | |
| | Undergraduate courses | 13.0 | |
| | 1 graduate elective* | 3.0 | |
| HIST 697 | Practicum: Science and Technology in Action | 3.0 | |
| | Total credits | 19.0 | |
| Term 12 | | | |
| | Undergraduate courses | 10.0 | |
| | 1 graduate elective* | 3.0 | |
| HIST 698 | MS Thesis | 6.0 | |
| | | | |

^{**}Graduate electives may be taken as graduate-level courses in History-Politics or from other departments/Colleges within the University

19.0



Total credits

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Sociology

About the Major

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

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

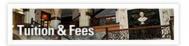
For more information about the Sociology major, visit the Department of Culture and Communication's Sociology page.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Sociology Bachelor of Arts Degree: 182.0 credits

Required Courses

Incoming students, 2011/2012

| General Requirements | | 68.0 - 80.0 Credits |
|----------------------|--|---------------------|
| ENGL 101 | Expository Writing and Reading | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| ENGL 103 | Analytical Writing and Reading | 3.0 |
| UNIV 101 | The Drexel Experience | 3.0 |
| | Four humanities/fine arts courses | 12.0 |
| | Two mathematics courses | 6.0-8.0 |
| | Two science courses | 6.0-8.0 |
| | A minimum of two consecutive foreign language* courses | 8.0-16.0 |

^{*} At least one foreign language course must be at the 200-level. In addition, the department recommends students take 2 additional foreign language courses as free electives.

Social and Behavioral Sciences

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

Studies in Diversity

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

Sociology Core Requirements

51.0 - 54.0 Credits

Required Major Seminar











- Drexel Home
- About Drexel
- Accreditation
- **Academic Policies**

Theory Sequence

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

Methods Sequence

| ANTH 370 | Ethnographic Methods | 3.0 |
|----------|-----------------------------------|-----|
| COM 220 | Qualitative Research Methods | 3.0 |
| SOC 250 | Research Methods | 3.0 |
| SOC 364 | Computer-Assisted Data Analysis I | 3.0 |

Core Courses

Students select five of the following core courses (15.0 credits):

| SOC 210 | Race and Ethnic Relations | 3.0 |
|---------|--|-----|
| SOC 230 | Women and Men in a Changing Society | 3.0 |
| SOC 220 | Wealth and Power | 3.0 |
| SOC 240 | Urban Sociology | 3.0 |
| SOC 320 | Sociology of Deviant Behavior | 3.0 |
| SOC 330 | Developing Nations/ International Division of Labor | 3.0 |

Other Program Requirements

30.0 Credits

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

| The Human Past | 3.0 |
|--------------------------------------|--|
| | |
| Biblical Archaeology | 3.0 |
| Topics on World Ethnography | 3.0 |
| Aging in Cross-Cultural Perspective | 3.0 |
| Societies in Transition | 3.0 |
| Approaches to Intercultural Behavior | 3.0 |
| Special Topics in Anthropology | 3.0 |
| Juvenile Justice | 3.0 |
| Techniques of Speaking | 3.0 |
| Business Communication | 3.0 |
| Public Relations | 3.0 |
| Sociology of the Future | 3.0 |
| Social Problems | 3.0 |
| | Topics on World Ethnography Aging in Cross-Cultural Perspective Societies in Transition Approaches to Intercultural Behavior Special Topics in Anthropology Juvenile Justice Techniques of Speaking Business Communication Public Relations Sociology of the Future |

| 000 400 | Occidence of the Ferrit | 0.0 |
|------------|---|---------|
| SOC 120 | Sociology of the Family | 3.0 |
| SOC 125 | Sociology of Aging | 3.0 |
| SOC 150 | Sex and Society | 3.0 |
| SOC 215 | Industrial Sociology | 3.0 |
| SOC 235 | Sociology of Health | 3.0 |
| SOC 230 | Women and Men in a Changing Society | 3.0 |
| SOC 240 | Urban Sociology | 3.0 |
| SOC 270 | Theory of Applied and Community Sociology | 3.0 |
| SOC 310 | Topics in Political Sociology | 3.0 |
| SOC 311 | Topics in Sociology of Religion | 3.0 |
| SOC 312 | Topics in Soc of Sci and Tech | 3.0 |
| SOC 315 | HIV AIDS and Africa | 3.0 |
| SOC 325 | Introduction to Urban and Environmental Planning | 3.0 |
| SOC 335 | Sociology of Education I | 3.0 |
| SOC 341 | Environmental Movements in America | 3.0 |
| SOC 344 | Social Movements | 3.0 |
| SOC 345 | Sociology of the Environment | 3.0 |
| SOC 349 | Sociology of Disasters | 3.0 |
| SOC 350 | Research Methods II | 3.0 |
| SOC 370 | Practicum in Applied and Community Sociology | .5-5.0 |
| SOC 365 | Computer-Assisted Data Analysis II | 3.0 |
| SOC 380 | Special Topics in Sociology | 1.0-3.0 |
| SOC 470 WI | Social Change and Social Planning | 3.0 |
| SOC 490 | Directed Studies: Sociology Research Seminar I | 4.0 |
| SOC 491 | Sociology Research Seminar II | 4.0 |
| SOC 492 | Sociology Research Seminar III | 4.0 |
| PSY 150 | Introduction to Social Psychology | 3.0 |
| PSY 252 | Death and Dying | 3.0 |
| PSY 350 | Advanced Social Psychology | 3.0 |
| UNIV 380 | Special Topics: University-Wide | 2.0-3.0 |
| | | |

| Free Electives | 18.0 - 33.0 Credits |
|----------------|---------------------|
| | |

Writing-Intensive Course Requirements
In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one writingintensive 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 may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.



Drexel UniversityCopyright © 2011. All rights reserved.

Recommended Plan Of Study

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 |
| SOC 395 | Seminar in Sociology | 3.0 |
| <u>UNIV 101</u> | The Drexel Experience | 2.0 |
| | Mathematics course | 3.0-4.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 18.0-19.0 |
| | | |
| Term 2 | | Credits |
| COM 150 | Mass Media and Society | 3.0 |
| ENGL 102 | Persuasive Writing and Reading | 3.0 |
| | Foreign language course | 4.0 |
| • | Mathematics course | 3.0-4.0 |
| | Term Credits | 13.0-14.0 |
| T 2 | | One dite |
| Term 3 ANTH 101 | Introduction to Cultural Divorcity | Credits |
| | Introduction to Cultural Diversity Analytical Writing and Reading | 3.0 |
| ENGL 103 SOC 260 | Classical Social Theory | 3.0 |
| <u>300 200</u> | Science elective (See degree requirements) | 3.0 |
| | Foreign language course | 3.0-4.0 |
| | Term Credits | 4.0 16.0-17.0 |
| | Term Credits | 10.0-17.0 |
| Term 4 | | Credits |
| COM 220 | Qualitative Research Methods | 3.0 |
| SOC 210 | Race and Ethnic Relations | 3.0 |
| SOC 250 | Research Methods I | 3.0 |
| SOC 395 | Seminar in Sociology | 3.0 |
| | Foreign language course | 4.0 |
| | Term Credits | 16.0 |
| | | 0 " |
| Term 5 | Ethnographic Methods | Credits |
| ANTH 370 COM 210 | Ethnographic Methods Theory and Medals of Communication | 3.0 |
| SOC 240 | Theory and Models of Communication Urban Sociology | 3.0 3.0 |
| <u>300 240</u> | | |
| | Free elective | 3.0 |
| | Science elective (See degree requirements) | 3.0-4.0 |
| | Term Credits | 15.0-16.0 |
| Term 6 | | Credits |
| SOC 364 | Computer-Assisted Data Analysis | 3.0 |
| | Diversity studies elective | 3.0 |
| | Social and Behavioral Sciences elective | 3.0 |
| | Other program requirement (See degree requirements list) | 3.0 |
| | | |

| | Free elective | 3.0 |
|--------------------|---|-------------|
| | Term Credits | 15.0 |
| | | 0 " |
| Term 7 | Woolth and Dawer | Credits |
| SOC 220 SOC 230 | Wealth and Power Women and Men in a Changing Society | 3.0 |
| UNIV 101 | The Drexel Experience | 3.0 1.0 |
| ONIV 101 | Social and Behavioral Sciences elective | 3.0 |
| | Other program requirement (See degree requirements list) | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 16.0 |
| | Tom Ground | 707 |
| Term 8 | | Credits |
| SOC 320 | Sociology of Deviant Behavior | 3.0 |
| SOC 330 | Developing Nations/International Division of Labor | 3.0 |
| SOC 395 | Seminar in Sociology | 3.0 |
| | Other program requirement (See degree requirements list) | 3.0 |
| | Free elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 9 | | Credits |
| | Humanities/Fine Arts elective | 3.0 |
| | Free elective | 3.0 |
| | International studies elective | 3.0 |
| | Other program requirements (See degree requirements list) | 6.0 |
| | Term Credits | 15.0 |
| Term 10 | | Credits |
| ANTH 410 | Cultural Theory | 3.0 |
| SOC 395 | Seminar in Sociology | 3.0 |
| | Other program requirements (See degree requirements list) | 6.0 |
| | Humanities/Fine Arts elective | 3.0 |
| | Term Credits | 15.0 |
| | | |
| Term 11 | | Credits |
| SOC 460 | Contemporary Social Theory | 3.0 |
| | Other program requirements (See degree requirements list) | 6.0 |
| | International studies elective | 3.0 |
| | Free elective | 4.0 |
| | Term Credits | 16.0 |
| Term 12 | | Credits |
| | Other program requirement (See degree requirements list) | 3.0 |
| | Sociology core course (See degree requirements) | 3.0 |
| | Humanities/Fine Arts electives | 6.0 |
| | Term Credits | 12.0 |
| | | |
| | Total Credits (minimum) | 182.0-186.0 |

Last Updated: May 31, 04:06 pm <u>Home</u> <u>Contents</u> <u>Index</u> <u>Email</u> <u>Search</u> <u>Feedback</u>

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Africana Studies

24.0 quarter credits

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 24.0 credits: 6.0 required credits and 18.0 elective credits.

Required courses

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

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

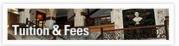
| AFAS 250 | African American Herstories | 3.0 |
|-------------|--|-----|
| AFAS 260 | Race, Politics and Religion | 3.0 |
| AFAS 295 | Special Topics in Africana Studies | 3.0 |
| AFAS 298 | Independent Study for Minors | 3.0 |
| AFAS 301 | Politics of Hip Hop | 3.0 |
| AFAS 385 | Rum, Rice and Revolution: Caribbean History | 3.0 |
| AFAS 395 | Special Topics in Africana Studies | 3.0 |
| AFAS 401 | Urban Social Justice Practicum I | 3.0 |
| AFAS 402 | Urban Social Justice Practicum II | 3.0 |
| 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* | 3.0 |
| | | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| HIST 216 | Freedom in America | 3.0 |
|----------|---|-----|
| HIST 215 | American Slavery | 3.0 |
| MUSC 107 | Jazz Ensemble and Combo | 3.0 |
| MUSC 333 | African-American Music in the United States | 3.0 |
| PSCI 354 | US and Third World Politics | 3.0 |
| PSCI 372 | City in Urban Politics | 3.0 |
| WMST 240 | Women in Society/Global Context | 3.0 |
| WMST 280 | Special Topics in Women's Studies** | 3.0 |

^{*} With a focus on the Caribbean, Latin America or the Diaspora.



Drexel University
Copyright © 2011. All rights reserved.

^{**} With a focus on race or the Diaspora.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in American Studies

25.0 quarter credits

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

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

Required courses

| American Government I* | | 4.0 |
|------------------------|---|---|
| owing courses: | 3.0 | |
| US History to 1815 | | 3.0 |
| US History, 1815-1900 | | 3.0 |
| US History since 1900 | | 3.0 |
| | owing courses: US History to 1815 US History, 1815-1900 | owing courses: 3.0 US History to 1815 US History, 1815-1900 |

| Two US History courses | 6.0 |
|------------------------|-----|
| | |

Some examples of US History courses include the following:

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

| Two US Government or US Politics | 6.0 |
|----------------------------------|-----|
| courses | 0.0 |

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

| PSCI 211 | American Government II | 4.0 |
|----------|--|-----|
| PSCI 220 | Constitutional Law I: Separation of Powers | 3.0 |
| PSCI 313 | State and Local Government | 3.0 |
| PSCI 330 | Public Opinion and Propaganda | 3.0 |
| PSCI 363 | Constitutional Law II | 3.0 |
| PSCI 364 | Constitutional Law III | 3.0 |
| PSCI 365 | Politics, Law, and Justice | 3.0 |
| PSCI 366 | Supreme Court & American Politics | 3.0 |
| | | |

Two of the following courses

6.0

Schedule of Classes









- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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

 $^{^{\}star}$ Or, if a History or Political Science major, PSCI 110 may be substituted with a third course from the PSCI courses listed.



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Minor in Anthropology

24.0 quarter credits

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

| Required (core) courses | | 15.0 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 |

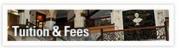
| Three of the following courses | | 9.0 |
|--------------------------------|--------------------------------------|-----|
| ANTH 215 | Anthropology of Gender | 3.0 |
| ANTH 330 | Media Anthropology | 3.0 |
| ANTH 120 | Biblical Archaeology | 3.0 |
| ANTH 212 | Topics in World Ethnography | 3.0 |
| ANTH 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 |











- Drexel Home
- About Drexel
- Accreditation
- **Academic Policies**

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Astrophysics

26.0 quarter credits

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

Required Prerequisite Courses*

| PHYS 113 | Contemporary Physics I | 5.0 |
|----------|--------------------------|-----|
| PHYS 114 | Contemporary Physics II | 5.0 |
| PHYS 115 | Contemporary Physics III | 5.0 |

Required Courses

| PHYS 311 | Classical Mechanics I | 4.0 |
|----------|----------------------------|-----|
| PHYS 312 | Classical Mechanics II | 4.0 |
| PHYS 321 | Electromagnetic Fields I | 4.0 |
| PHYS 231 | Introductory Astrophysics | 3.0 |
| PHYS 232 | Observational Astrophysics | 3.0 |
| PHYS 431 | Galactic Dynamics | 3.0 |
| PHYS 432 | Cosmology | 3.0 |
| PHYS 409 | Astrophysics Seminar** | 1.0 |

^{*}Physics 101/102/201 or will also satisfy the prerequisite requirements.

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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

^{**}Two terms, one credit each term.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Bioinformatics

24.0 quarter credits

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

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

Core courses

| BIO 331 | Bioinformatics I | 3.0 |
|---------|--------------------------------------|-----|
| BIO 332 | Bioinformatics II | 3.0 |
| | Two senior research project courses* | 6.0 |

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

Area-specific courses

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

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

Bioscience

| BIO 107 | Cells, Genetics and Physiology | 3.0 |
|---------|---|-----|
| BIO 108 | Cells, Genetics and Physiology Lab | 1.0 |
| BIO 109 | Biological Diversity, Ecology and Evolution | 3.0 |
| BIO 110 | Biological Diversity, Ecology and Evolution Lab | 1.0 |
| BIO 449 | Recombinant DNA Laboratory | 5.0 |
| NFS 400 | Nutritional Chemistry | 3.0 |
| NFS 401 | Nutritional Chemistry Laboratory | 1.0 |

Programming and Computation

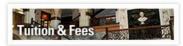
| CS 171 | Computer Programming I | 3.0 |
|----------|-------------------------------------|-----|
| CS 172 | Computer Programming II | 3.0 |
| CS 260 | Data Structures | 3.0 |
| INFO 102 | Introduction to Information Systems | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Human/Computer Interface Design CS 337 Human-Computer Interaction 3.0 **INFO 110** Human-Computer Interaction I 3.0 Databases CS 461 Database Systems 3.0 INFO 200 3.0 Systems Analysis I **INFO 210** Database Management Systems 3.0 Statistics **MATH 310** Introduction to Probability and Statistics 4.0 MATH 311 Probability and Statistics I 4.0 MATH 312 Probability and Statistics II 4.0 MATH 410 Scientific Data Analysis I 3.0 MATH 411 Scientific Data Analysis II 3.0



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Biological Sciences

25.5 credits

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

Required courses

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

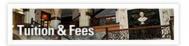
*Note: The department also offers a minor in Bioinformatics specifically designed for students majoring in biomedical engineering, biological science, computer science, information systems, or mathematics.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel DRIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Minor in Bioscience and Society

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

Required courses

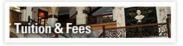
| Applied Cells, Genetics and Physiology | 3.0 |
|---|---|
| | |
| Cells, Genetics & Physiology | 3.0 |
| Cells, Genetics & Physiology Lab | 1.0 |
| Applied Biological Diversity, Ecology and Evolution | 3.0 |
| | |
| Biological Diversity, Ecology and Evolution | 3.0 |
| Biological Diversity, Ecology and Evolution Lab | 1.0 |
| Evolution | 4.0 |
| | Cells, Genetics & Physiology Cells, Genetics & Physiology Lab Applied Biological Diversity, Ecology and Evolution Biological Diversity, Ecology and Evolution Biological Diversity, Ecology and Evolution Lab |











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

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

LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- **Academic Policies**



Drexel University Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Chemistry

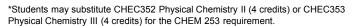
27.5 quarter credits

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

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

Required courses

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



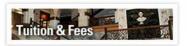
^{**}The 10.5 credits of chemistry electives must include at least one additional laboratory course. These electives are selected from any of the regularly offered chemistry department lecture or laboratory courses 200-level and above according to your specific interests. Note that existing course pre-requisites may affect which courses may be selected. The variable credit courses CHEM 493 Senior Research Project or CHEM 497 Undergraduate Research may also be used to fulfill either the lecture or laboratory requirements for the minor.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

3.0

3.0

Minor in Communication

24.0 quarter credits

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

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

Core courses

| COM 210 | Theories of Communication | 3.0 |
|--------------------|---|-----|
| COM 380 | Special Topics in Communication | 3.0 |
| And one of the | e following courses: | _ |
| COM 101 COM 111 | Human Communication Principles of Communication | 3.0 |

Journalism focus

COM 260 WI

COM 280

| And one of the following courses: | | |
|-----------------------------------|--------------------------|-----|
| COM 300 WI | On-Line Journalism | 3.0 |
| COM 315 | Investigative Journalism | |
| COM 390 WI | Global Journalism | |

Fundamentals of Journalism

Corporate and Public Relations focus

Public Relations

| And one of the following courses: | | |
|-----------------------------------|--|-----|
| COM 270 WI COM 281 | Business Communication Advanced Public Relations | 3.0 |

Technical and Science Communication focus

| COM 310 WI | Technical Communication | 3. |
|-------------------|-------------------------|----|
| And one of the | following courses: | |
| COM 320 WI | Science Writing | 3. |
| COM 375 WI | Grant Writing | |

Environmental Communication focus

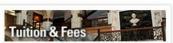
| | | _ |
|-------------------|-----------------------------|-----|
| COM 317 WI | Environmental Communication | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

And one of the following courses:

| COM 316 | Campaigns for Health and the Environment Film, Celebrity and the Environmental | 3.0 |
|----------------|--|-----|
| Three Addition | Movement al Courses | |
| | Three Communication (COM) or Linguistics (LING) electives | 9.0 |



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Computer Crime

24.0 quarter credits

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

Required courses

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

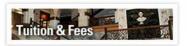
| Additional Elective Courses Students select two courses from the following list: | | 6.0 Credits |
|--|--------------------------------------|-------------|
| CJ 265 | Criminal Investigation | 3.0 |
| CJ 266 | Crime Prevention Planning | 3.0 |
| CJ 267 | Introduction to Security Studies | 3.0 |
| CJ 273 | Surveillance, Technology and the Law | 3.0 |
| CJ 362 | Gender, Crime & Justice | 3.0 |
| CJ 375 | Criminal Procedure | 3.0 |
| CJ 380 | Special Topics in Criminal Justice | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

Drexel University CATALOG ARCHIVE

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Criminal Justice

24.0 quarter credits

Students from any major who are interested in the law, legal issues and the forensic sciences may envision a future connection with the criminal justice system. These students could enhance their career possibilities by adding a minor in criminal justice to their major field of study. The minor consists of four required courses and four criminal justice electives chosen from two categories, for a total of 24.0 credits. Students minoring in criminal justice are assumed to have already taken SOC 101, Introduction to Sociology.

Required courses

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

Criminal Justice Elective Courses

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

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

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

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

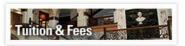
| CJ 282 | Community Policing | 3.0 |
|------------|--------------------------------------|-----|
| CJ 362 | Gender, Crime & Justice | 3.0 |
| CJ 380 | Special Topics in Criminal Justice | 3.0 |
| COM 355 | Ethnography of Communication | 3.0 |
| COM 365 | Journalists, the Courts, and the Law | 3.0 |
| SOC 115 | Social Problems | 3.0 |
| SOC 120 | Sociology of the Family | 3.0 |
| PSY 150 | Introduction to Social Psychology | 3.0 |
| PSY 240 WI | Abnormal Psychology | 3.0 |
| PSY 370 | Forensic Psychology | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Ecology

25.0 - 26.0 quarter credits

Required Courses

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

26.0 Credits

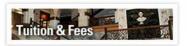
| Required Courses | zo.o Creui | 20.0 Credits | |
|------------------|--------------------------------------|--------------|--|
| BIO 217 | Evolution | 4.0 | |
| ENVS 230 | General Ecology | 3.0 | |
| ENVS 260 | Environmental Science and Society | 3.0 | |
| ENVS 284 WI | Physiological and Population Ecology | 3.0 | |
| ENVS 285 | Population Ecology Laboratory | 2.0 | |
| ENVS 286 | Community and Ecosystem Ecology | 3.0 | |
| ENVS 287 | Community Ecology Laboratory | 2.0 | |
| ENVS 338 | Biodiversity and Conservation | 3.0 | |
| ENVS | Environmental Science elective | 3.0-4.0 | |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in English

24.0 quarter credits

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

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

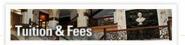
| Requirements | | 24.0 | | | |
|---|---|------|--|--|--|
| Students select three (3) of the following courses: | | | | | |
| ENGL 200 WI | Classical to Medieval Literature | 3.0 | | | |
| ENGL 201 | Renaissance to the Enlightenment | 3.0 | | | |
| ENGL 202 WI | Romanticism to Modernism | 3.0 | | | |
| ENGL 203 WI | Post-Colonial Literature I | 3.0 | | | |
| ENGL 204 | Post-Colonial Literature II | 3.0 | | | |
| ENGL 205 WI | American Literature I | 3,0 | | | |
| ENGL 206 WI | American Literature II | 3.0 | | | |
| ENGL 207 WI | African American Literature | 3.0 | | | |
| ENGL 211 WI | British Literature I | 3.0 | | | |
| ENGL 212 | British Literature II | 3.0 | | | |
| ENGL 214 | Readings in Fiction | 3.0 | | | |
| ENGL 215 WI | Readings in Poetry | 3.0 | | | |
| ENGL 216 WI | Readings in Drama | 3.0 | | | |
| | Students select two (2) of the following courses: | | | | |
| WRIT 220 WI | Creative Non-Fiction Writing | 3.0 | | | |
| WRIT 225 WI | Creative Writing | 3.0 | | | |
| WRIT 301 WI | Writing Poetry | 3.0 | | | |
| WRIT 302 | Writing Fiction | 3.0 | | | |
| WRIT 303 | Writing Humor and Comedy | 3.0 | | | |
| WRIT 304 WI | Special Topics: (Humor, Autobiography, Writing about the Media) | 3.0 | | | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| WRIT 306 | Writing about the Media | 3.0 |
|--------------------------------|--|-----|
| WRIT 310 | Literary Editing and Publishing | 3.0 |
| WRIT 312 | Practice of Professional Writing | 3.0 |
| WRIT 400 | Writing in Cyberspace | 4.0 |
| WRIT 405 | Internship in Publishing | 2.0 |
| Students selecthe following of | | |
| ENGL 300 WI | Literature and Science | 3.0 |
| ENGL 302 | Environmental Literature | 3.0 |
| ENGL 303 | Science Fiction | 3.0 |
| ENGL 305 WI | The Mystery Story | 3.0 |
| ENGL 306 | Literature of Baseball | 3.0 |
| ENGL 307 | Literature of the Holocausts | 3.0 |
| ENGL 310 WI | Period Studies | 3.0 |
| ENGL 315 WI | Shakespeare | 3.0 |
| ENGL 320 WI | Major Authors | 3.0 |
| ENGL 325 | Topics in World Literature | 3.0 |
| ENGL 330 | The Bible as Literature | 3.0 |
| ENGL 335 | Mythology | 3.0 |
| ENGL 345 | American Ethnic Literature | 3.0 |
| ENGL 350 | Jewish Literature and Civilization | 3.0 |
| ENGL 355 WI | Women and Literature | 3.0 |
| ENGL 360 WI | Literature and Society | 3.0 |
| ENGL 365 | Topics in African American Literature | 3.0 |
| ENGL 370 | Topics in Literature and Medicine | 3.0 |
| ENGL 380 | Literary Theory | 3.0 |

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



COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Environmental Engineering

24.0 quarter credits

The Environmental Engineering minor focuses on pollution control and is primarily designed to broaden the professional capabilities of engineering students. For example, chemical and mechanical engineers working in process and manufacturing plants will be provided with a better understanding of the natural context of their facilities, better equipped to perform fate and risk analyses, and better able to apply the appropriate technology to control air and water discharges.

While this minor is designed to provide technical knowledge and skills to other engineers, with the appropriate prerequisites students from disciplines other than engineering can also complete this minor.

The minor consists of 24 credits, with five core required courses and nine additional credits taken from a list of options.

Prerequisites

Required courses

The common engineering core curriculum prerequisites are required of all students in the College of Engineering. Students from other colleges will need the appropriate background in physics, mathematics and thermodynamics.

16.0

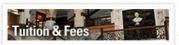
| Required courses | | 16.0 | |
|------------------|--|---------|--|
| CAEE 210 | Measurements in Civil, Architectural and Environmental Engineering I | 3.0 | |
| ENVE 300 | Introduction to Environmental Engineering | 3.0 | |
| ENVE 302 | Environmental Transport and Kinetics | 3.0 | |
| CIVE 330 | Hydraulics | 4.0 | |
| ENVS 401 | Chemistry of the Environment | 3.0 | |
| | | 8.0 | |
| Students sel | ect a minimum of eight additional credi j: | ts from | |
| ENVE 410 | Solid and Hazardous Waste | 3.0 | |
| ENVE 460 | Fundamentals of Air Pollution Control | 3.0 | |
| ENVE 486 | Environmental Engineering Processing Lab I | 2.0 | |
| ENVE 487 | Environmental Engineering Processing Lab II | 2.0 | |
| CIVE 430 | Hydrology | 3.0 | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Environmental Studies

24.0 credits

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

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

Required courses

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

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

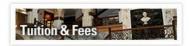
| COM 316 | Campaigns for Health and the Environment | 3.0 |
|----------|--|-----|
| ECON 351 | Environmental Economics | 4.0 |
| PSCI 331 | Environmental Politics | 3.0 |
| ENVP 346 | Environmental Justice | 3.0 |
| ENVP 360 | Environmental Movements in America | 3.0 |
| CJ 373 | Environmental Crimes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











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in European Studies

25.0 quarter credits

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

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

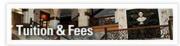
| Required courses | 10.0 Credi | ts |
|------------------|--|-----|
| HIST 162 | Themes in World Civilization II | 3.0 |
| HIST 163 | Themes in World Civilization III | 3.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| or | | |
| PSCI 140 | Introduction to Comparative Political Analysis | 4.0 |
| | | |
| Three European H | istory courses 9.0 | |











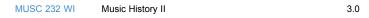
Some examples of European History courses are:

| HIST 235 | The Great War, 1914-1918 | 3.0 |
|----------|---------------------------------------|-----|
| HIST 236 | World War II | 3.0 |
| HIST 241 | Modern France | 3.0 |
| HIST 242 | Modern Italy | 3.0 |
| HIST 243 | Germany and the World of Hitler | 3.0 |
| HIST 244 | 20th-century Russia and the USSR | 3.0 |
| HIST 246 | England Elizabeth/Waterloo, 1558-1815 | 3.0 |
| HIST 247 | Modern England, 1815 to Present | 3.0 |
| HIST 250 | European Revolutionary Ideology | 3.0 |
| HIST 251 | Fascism | 3.0 |
| HIST 252 | Europe between Wars, 1919-1939 | 3.0 |
| HIST 258 | History of Europe, 19th Century | 3.0 |
| HIST 259 | History of Europe, 20th Century | 3.0 |

| LE | AKN | MC | JK |
|----|------|-----|----|
| _ | Dres | امر | Нο |

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| Two of the follow | wing courses 6.0 | |
|-------------------|--|-----|
| ARTH 101 | History of Art I: Ancient to Medieval | 3.0 |
| ARTH 102 | History of Art II: Renaissance to Modern | 3.0 |
| ARTH 103 | History of Art III: Early Modern to Postmodernism | 3.0 |
| ENGL 200 WI | Classical to Medieval Literature | 3.0 |
| ENGL 201 | Renaissance to the Enlightenment | 3.0 |
| ENGL 202 WI | Romanticism to Modernism | 3.0 |
| ENGL 310 WI | Period Studies | 3.0 |
| ENGL 315 WI | Shakespeare | 3.0 |
| MUSC 231 WI | Music History I | 3.0 |





Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Fine Art

24.0 quarter credits

The Fine Art minor enables students to develop skills and concepts in the studio arts. Students in studio courses learn to combine skills in using tools and materials, visual theoretical concepts, and new technologies, all of which are necessary for design professionals.

Academic requirements

To be eligible for the fine art minor, a student must have completed a minimum of 30 undergraduate credits, have a declared major, and have a minimum GPA of 2.7. the academic requirement of 24 credits for the minor must be completed at or before the time of graduation.

Basic design pre-requisite courses are required for most Visual Studies courses, and some of these may have already been taken for a student's major. However, only nine credits of major-related coursework can be applied to the 24 credits required for the minor in fine arts. Students with design credits from other schools or departments may be allowed to apply them to their pre-requisite requirements only upon review by the fine art minor faculty advisor.

Required courses

| VSST 101 | Design I | 4.0 |
|----------|----------------------|-----|
| VSST 110 | Introductory Drawing | 3.0 |

Students select a minimum of an additional 17.0 credits form the following courses:

| VSST 102 | Design II | 4.0 |
|----------|---------------------------------|-----|
| VSST 103 | Design III | 4.0 |
| VSST 111 | Figure Drawing I | 3.0 |
| VSST 112 | Figure Drawing II | 3.0 |
| VSST 201 | Multimedia: Performance | 4.0 |
| VSST 202 | Multimedia: Space | 4.0 |
| VSST 203 | Multimedia: Materials | 4.0 |
| VSST 204 | Materials Exploration | 4.0 |
| VSST 301 | Painting I | 4.0 |
| VSST 302 | Painting II | 4.0 |
| VSST 303 | Painting III | 4.0 |
| VSST 310 | Sculpture: Metal Fabrication | 4.0 |
| VSST 311 | Sculpture I | 4.0 |
| VSST 312 | Sculpture II | 4.0 |
| VSST 313 | Sculpture III | 4.0 |
| VSST 321 | Screenprint I | 4.0 |
| VSST 322 | Printmaking I | 4.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| VSST 323 | Printmaking II | 4.0 |
|----------|-------------------------------------|-----|
| VSST 324 | Advanced Printmaking | 4.0 |
| VSST 325 | Screenprint II | 4.0 |
| VSST 399 | Independent Study | 3.0 |
| VSST 465 | Special Topics in Visual Studies | 3.0 |
| PHTO 110 | Basic Photography | 3.0 |
| PHTO 115 | Photographic Principles | 3.0 |
| PHTO 210 | Intermediate Photography | 3.0 |
| PHTO 233 | Large-Format Photography | 4.0 |
| PHTO 253 | Fine Black-and-White Printing | 3.0 |



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Minor in Greek Studies

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

| Required co | urses 7.0 Credits | |
|----------------|--|-----|
| | Greek language course (GREC 101, GREC 102, GREC 103, or GREC 201.) | 4.0 |
| ANTH 212 | Anthropology of the Mediterranean | 3.0 |
| or GREC 212 | Greek Folklore | |

Greek studies electives 17.0 Credits

Students select a minimum of 17.0 credits from the following courses:

| ANTH 212 | Anthropology of the Mediterranean* | 3.0 |
|-------------|--|----------|
| ARTH 101 | History of Art I: Ancient to Medieval | 3.0 |
| ENGL 200 WI | Classical to Medieval Literature | 3.0 |
| ENGL 323 | Literature and the Otehr Arts (If Greek Literature/Arts is the topci) | 3.0 |
| ENGL 325 | Topics in World Literature (if Greek Literature is the topic) | 3.0 |
| ENGL 335 | Mythology | 3.0 |
| GREC 101 | Modern Elementary Greek I* | 4.0 |
| GREC 102 | Modern Elementary Greek II* | 4.0 |
| GREC 103 | Modern Elementary Greek III* | 4.0 |
| GREC 201 | Intermediate Modern Greek I | 4.0 |
| GREC 212 | Greek Folklore* | 3.0 |
| GREC 225 | Greek Music and Dance | 3.0 |
| GREC 380 | Special Topics in Greek Studies | variable |
| GREC 399 | Independent Study in Greek | variable |
| HIST 280 | History of Science I | 3.0 |
| INTB 338 WI | Regional Studies in International Business and Economic Policy** | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| MUSC 380 | Special Topics in Music (when offered as Mediterranean Ensemble) | 1.0 |
|-------------------------|--|-----|
| PHIL 201 | History of Western Philosophy I | 3.0 |
| Drexel in Creofferings: | ete Study Abroad Program course | |
| ANTH 380 | Special Studies in Anthropology: Crete Through the Looking Glass | 3.0 |
| LANG 180 | Special Topics in Languages: Communicate in Greek: Philoxenia | 3.0 |
| IAS 360 | Special Topics in World Civilization: Cretan Civilization: Unraveling Ariadne's Thread | 3.0 |
| GREC 380 | Special Topics in Greek Studies: Greek and Cretan History, Economy and Society | 3.0 |

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



Drexel University
Copyright © 2011. All rights reserved.

 $^{^{\}star\star}$ Students may only select this course as a Greek Study elective if it is being offered as Mediterranean Economy.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in History

24.0 quarter credits

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

| Required courses | |
|----------------------------------|--|
| llowing history sequences: | 9.0 |
| Themes in World Civilization I | 3.0 |
| Themes in World Civilization II | 3.0 |
| Themes in World Civilization III | 3.0 |
| | |
| US History to 1815 | 3.0 |
| US History, 1815-1900 | 3.0 |
| US HIstory since 1900 | 3.0 |
| tives | 15.0 |
| | Illowing history sequences: Themes in World Civilization I Themes in World Civilization II Themes in World Civilization III US History to 1815 US History, 1815-1900 US HIstory since 1900 |

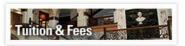
15.0 credits of any additional 200-level or higher HIST courses.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Human Factors and Ergonomics

24.0 quarter credits

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

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

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

Required prerequisite

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

One additional course from the following list

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











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in International Area Studies

24.0 quarter credits

Language study through level 201 is a prerequisite for the minor.

Prerequisite: completion of Level 201 in a language

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

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

International Area Studies (IAS) electives

15.0

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

| iisted below | | |
|--------------|---|-----|
| AFAS 295 | Special Topics in Africana Studies | 3.0 |
| ANTH 212 | Topics in World Ethnography | 3.0 |
| ANTH 220 | Aging in Cross-Cultural Perspectives | 3.0 |
| ANTH 310 | Societies in Transition | 3.0 |
| ANTH 312 | Approaches to Intercultural Behavior | 3.0 |
| ANTH 410 | Cultural Theory | 3.0 |
| BIO 264 | Ethnobiology | 3.0 |
| BLAW 340 | International Business Law | 4.0 |
| COM 342 | English Worldwide | 3.0 |
| COM 345 | Intercultural Communication | 3.0 |
| COM 355 | Ethnography of Communication | 3.0 |
| COM 360 | International Communication | 3.0 |
| COM 361 | International Public Relations | 3.0 |
| COM 390 WI | Global Journalism | 3.0 |
| | | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| ECON 342 | Economic Development | 4.0 |
|-------------|--|------|
| ENGL 203 WI | Post-Colonial Literature I: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 204 | Post-Colonial Literature II: Africa/Asia/Caribbean/Japan/Middle East | 3.0 |
| ENGL 323 | Literature and the Other Arts* | 3.0 |
| ENGL 325 | Topics in World Literature | 3.0 |
| ENGL 360 WI | Literature and Society* | 3.0 |
| HIST 290 | Technology and the World Community | 3.0 |
| IAS 320 | Building Global Bridges | 3.0 |
| IAS 390 | Special Topics in International Area Studies | var. |
| INTB 332 WI | Multinational Corporations | 4.0 |
| INTB 334 | International Trade | 4.0 |
| INTB 336 | International Money and Finance | 4.0 |
| MUSC 331 | World Musics | 3.0 |
| NFS 345 WI | Foods and Nutrition of World Cultures | 3.0 |
| NFS 446 | Perspectives on World Nutrition | 3.0 |
| PHIL 335 | Global Ethical Issues | 3.0 |
| PSCI 120 | History of Political Thought | 4.0 |
| PSCI 240 | Comparative Government | 4.0 |
| PSCI 255 | International Political Economics | 4.0 |
| PSCI 323 | Comparative Political Thought | 3.0 |
| PSCI 340 | Politics of Developing Nations | 3.0 |
| PSCI 351 | International Organizations | 3.0 |
| PSCI 352 | Ethics and International Relations | 3.0 |
| PSCI 353 | International Human Rights | 3.0 |
| PSCI 357 | European Union | 3.0 |
| PSCI 367 | International Law | 3.0 |
| SOC 220 | Wealth and Power | 3.0 |
| SOC 330 | Developing Nations and the International Division of Labor | 3.0 |
| SOC 344 | Social Movements | 3.0 |
| SOC 346 | Environmental Justice | 3.0 |
| SOC 435 | Seminar: Organization of American States | 3.0 |
| WMST 280 | Special Topics in Women's Studies* | 3.0 |



Drexel UniversityCopyright © 2011. All rights reserved.

^{*}These courses must have an international focus.

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

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

The Louis Stein Minor in Judaic Studies

24.0 quarter credits

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

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

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

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



For more information, contact Kathleen Carll, Associate Director, Judaic Studies Program, , judaicstudies@drexel.edu or Professor Rakhmiel Peltz, Director of Judaic Studies, , rakhmiel.peltz@drexel.edu. The Judaic Studies Program offices are located in Room 331 of Hagerty Library.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Mathematics

38.0 quarter credits

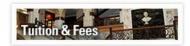
The minor in mathematics consists of five required courses and at least 18.0 credits of electives from a specified group of elective courses specified below.

Required Courses

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







Mathematics minor electives**

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

| MATH 205 | Survey of Geometry | 3.0 |
|-------------|--|----------|
| MATH 210 | Differential Equations | 4.0 |
| MATH 262 | Differential Equations | 3.0 |
| MATH 220 | Introduction to Mathematical Reasoning | 3.0 |
| MATH 221 | Discrete Mathematics | 3.0 |
| MATH 235 | Math Competition Problem Solving Seminar | .5 - 4.0 |
| MATH 285 | Differential Equations II | 3.0 |
| MATH 286 | Applied Differential Equations | 3.0 |
| MATH 291 | Complex and Vector Analysis for Engineers † | 4.0 |
| MATH 300 | Numerical Analysis | 4.0 |
| MATH 301 | Numerical Analysis II | 3.0 |
| MATH 305 | Introduction to Optimization Theory | 4.0 |
| MATH 311 | Probability and Statistics I | 4.0 |
| MATH 312 | Probability and Statistics II | 4.0 |
| MATH 316 | Mathematical Applications of Symbolic Software | 3.0 |
| MATH 318 WI | Mathematical Applications of Statistical | 3.0 |

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Software

| MATH 320 | Actuarial Mathematics | 3.0 |
|----------|--------------------------------|-----|
| MATH 321 | Vector Calculus | 4.0 |
| MATH 322 | Complex Variables | 4.0 |
| MATH 323 | Partial Differential Equations | 4.0 |
| MATH 331 | Abstract Algebra I | 4.0 |
| MATH 332 | Abstract Algebra II | 3.0 |
| MATH 401 | Elements of Modern Analysis I | 3.0 |
| MATH 402 | Elements of Modern Analysis II | 3.0 |
| MATH 410 | Scientific Data Analysis I | 3.0 |
| MATH 411 | Scientific Data Analysis II | 3.0 |
| MATH 422 | Introduction to Topology | 4.0 |
| MATH 449 | Mathematical Finance | 3.0 |
| MATH 450 | Introduction to Graph Theory | 3.0 |
| MATH 475 | Cryptography | 3.0 |
| | | |

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



Drexel University
Copyright © 2011. All rights reserved.

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

 $[\]dagger$ Students who take MATH 291 cannot also count MATH 321 or MATH 322 toward their minor.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minors in Modern Languages

24 quarter credits of language study above the 103 level

Minors in Arabic, Chinese, French, German, Italian, Japanese, Korean, Russian, and Spanish are offered. All beginner and intermediate courses are oral-intensive, with additional hours required in the Language Laboratory. Advanced courses focus on writing skills and do not always require lab work. Arabic, Chinese, Japanese, Korean and Russian 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 cooperative education placement abroad in countries where English is not the national language. Study for two consecutive terms or through level 103 is the minimum requirement for the BA degree, but additional language course work is required by most departments offering this degree.

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

Course Descriptions

- Arabic
- ChineseFrench
- German
- GreekHebrew
- Italian
- Japanese
- Korean
- RussianSpanish

Certification of Proficiency

Drexel offers an advanced-level Certification of Proficiency for students who have successfully completed 24 credits of coursework and passed the series of written Proficiency examinations and an extensive FSI/ACTFL oral examination with at least an FSI "2" or ACTFL "Advanced" rating. Certification is listed on the student transcript. The different Proficiency exams can be taken once the student has satisfactorily passed the Achievement Test. They are also the prerequisite before starting a minor thesis.

Language Minors

Requirements, Western languages

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

Course options (subject to placement level)

201-203 Advanced Conversation and Composition

311 WI; 312 WI;

411

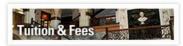
Stylistics; Advanced Stylistics











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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

*Special topics courses may be repeated for credit.

Requirements, non-western languages

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

Course options (subject to placement level)

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



COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS **ARCHIVE**

Minor in Paralegal Studies

24.0 quarter credits (minimum)

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

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

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



| BLAW 202 | Business Law II | 4.0 |
|----------|--|-----|
| BLAW 330 | Real Estate (pre-req BLAW 202) | 4.0 |
| CJ 274 | Sex, Violence & Crime on the Internet | 3.0 |
| CJ 377 | Intellectual Property Theft | 3.0 |
| COM 345 | Intercultural Communication | 3.0 |
| PSCI 220 | Constitutional Law I: Separation of Powers | 3.0 |
| PSY 370 | Forensic Psychology | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- **Academic Policies**

Drexel University Copyright © 2011. All rights reserved. 3141 Chestnut Street, Philadelphia, PA 19104

catalog@drexel.edu •

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Philosophy

24.0 quarter credits

The Minor in Philosophy combines the rigor of traditional philosophical inquiry with an interest in practical problems. The emphasis, both in the structure of the course requirements and in content, is on a critical concern with contemporary issues in determining solutions. This focus serves Drexel University's mission of providing practical professional instruction. It also serves students who seek employment in industry and business (employers have noted an interest in graduates trained in careful philosophical and logical analysis), as well as those applying to graduate school in the professions. Besides familiarity with professional issues, philosophically trained students perform better on graduate school entrance examinations than most other undergraduates.

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

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

Required Courses

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

One of the following courses:

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

One of the following courses:

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

One of the following courses:

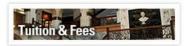
| PHIL 231 | Aesthetics | 3.0 |
|----------|-----------------------------------|-----|
| PHIL 241 | Social and Political Philosophy | 3.0 |
| PHIL 351 | Philosophy of Technology | 3.0 |
| PHIL 355 | Philosophy of Medicine | 3.0 |
| PHIL 361 | Philosophy of Science | 3.0 |
| PHIL 371 | Philosophy of the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











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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

One of the following courses

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



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Physics

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

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

Required Courses

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



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

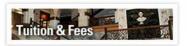
^{*}The remaining 10.5 credits must be taken at or above the 300-level. See the department for a full list of possible courses.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Politics

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

12.0

Required courses

Three of the following 4-credit

| survey courses: | | | |
|-----------------|--|-----|--|
| PSCI 100 | Introduction to Political Science | 4.0 | |
| PSCI 110 | American Government I | 4.0 | |
| PSCI 120 | History of Political Thought | 4.0 | |
| PSCI 130 | Research Methods in Political Science I | 4.0 | |
| PSCI 140 | Introduction to Comparative Political Analysis | 4.0 | |
| PSCI 150 | International Politics | 4.0 | |

Political Science electives 12.0

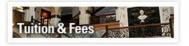
12.0 credits of any additional 200-level or higher PSCI courses.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Psychology

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

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

Required prerequisite

| General Psychology course (PSY 101 or equivalent) | 3.0 |
|---|-----|
| | |

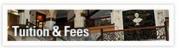
| Required courses (Select eight of the following courses) | | |
|--|--|-----|
| PSY 120 | Developmental Psychology | 3.0 |
| PSY 140 | Approaches to Personality | 3.0 |
| PSY 150 | Introduction to Social Psychology | 3.0 |
| PSY 210 | Evolutionary Psychology | 3.0 |
| PSY 212 | Physiological Psychology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











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Sociology

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

Required courses

| SOC 250 | Research Methods I | 3.0 |
|-------------------|--|------|
| SOC 260 WI | Classical Social Theory | 3.0 |
| SOC 460 WI | Contemporary Social Theory | 3.0 |
| Five of the follo | wing courses | 15.0 |
| ANTH 220 | Aging in Cross-Cultural Perspective | 3.0 |
| ANTH 310 | Societies in Transition | 3.0 |
| CJ 362 | Gender, Crime & Justice | 3.0 |
| SOC 110 | Sociology of the Future | 3.0 |
| SOC 115 | Social Problems | 3.0 |
| SOC 120 | Sociology of the Family | 3.0 |
| SOC 125 | Sociology of Aging | 3.0 |
| SOC 205 | Criminology and Criminal Justice | 3.0 |
| SOC 210 | Race and Ethnic Relations | 3.0 |
| SOC 215 | Industrial Sociology | 3.0 |
| SOC 220 | Wealth and Power | 3.0 |
| SOC 225 | Sociology of Technology and Aging | 3.0 |
| SOC 230 | Women and Men in a Changing Society | 3.0 |
| SOC 235 | Sociology of Health | 3.0 |
| SOC 310 | Topics in Political Sociology | 3.0 |
| SOC 320 WI | Sociology of Deviant Behavior | 3.0 |
| SOC 330 | Developing Nations and the International Division of Labor | 3.0 |
| SOC 335 | Sociology of Education and Literacy I | 3.0 |
| SOC 336 | Sociology of Education and Literacy II | 3.0 |
| SOC 340 | Globalization | 3.0 |
| SOC 350 | Research Methods II | 3.0 |
| | | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies



Drexel University Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

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,

Required courses

| WMST 101 | Introduction to Women's Studies | 3.0 |
|----------|---------------------------------|------|
| WMST 301 | Seminar in Feminist Theory | 3.0 |
| | Electives* | 18.0 |

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



^{*}By permission only.











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in World History and Politics

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

Students are required to take 24.0 - 27.0 credits, as follows:

Required Courses

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

Two Upper-Level World History 6.0 courses

Some examples of upper-level World History courses are:

| HIST 238 | The Vietnam War | 2.0 |
|-------------|--|-----|
| HIST 230 | rne vietnam war | 3.0 |
| HIST 244 | 20th-century Russia and USSR | 3.0 |
| HIST 254 | Russian History Before 1900 | 3.0 |
| HIST 263 | The World and China | 3.0 |
| HIST 264 | East Asia in Modern Times | 3.0 |
| HIST 270 WI | Introduction to Latin American History | 3.0 |
| HIST 271 | History of Mexico | 3.0 |
| HIST 272 | Ancient and Colonial Mexico | 3.0 |
| HIST 273 | Modern Mexico | 3.0 |
| HIST 274 | Conquest of Mexico | 3.0 |
| | | |

Three International Political Science courses

9.0-10.0

Some examples of International Political Science courses are:

| PSCI 150 | International Politics | 4.0 |
|----------|--|-----|
| PSCI 240 | Comparative Government | 3.0 |
| PSCI 323 | Comparative Political Thought | 3.0 |
| PSCI 340 | Politics of Developing Nations | 3.0 |
| PSCI 344 | Introduction to 20th Century Middle East | 3.0 |
| PSCI 345 | Comparative Politics of the Middle East | 3.0 |
| PSCI 351 | International Organizations | 3.0 |
| PSCI 352 | Ethics and International Relations | 3.0 |
| PSCI 353 | International Human Rights | 3.0 |
| PSCI 358 | Political Economy of Japan | 3.0 |
| PSCI 377 | Politics of Latin America | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Two courses, one course each from two of the following areas:

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



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Philosophy in the Arts & Humanities Certificate

18.0 quarter credits

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

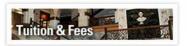
| PHIL 101 Introduction to Western Philosophy PHIL 105 Critical Reasoning PHIL 107 Philosophy and Knowledge Organization PHIL 231 Aesthetics PHIL 381 WI Philosophy in Literature One of the following courses: PHIL 385 Philosophy of Law PHIL 391 Philosophy of Religion | Required Cours | ses | 18.0 Credits |
|---|------------------|---------------------------------------|--------------|
| PHIL 107 Philosophy and Knowledge Organization PHIL 231 Aesthetics PHIL 381 WI Philosophy in Literature One of the following courses: PHIL 385 Philosophy of Law | PHIL 101 | Introduction to Western Philosophy | 3.0 |
| PHIL 231 Aesthetics PHIL 381 WI Philosophy in Literature One of the following courses: PHIL 385 Philosophy of Law | PHIL 105 | Critical Reasoning | 3.0 |
| PHIL 381 WI Philosophy in Literature One of the following courses: PHIL 385 Philosophy of Law | PHIL 107 | Philosophy and Knowledge Organization | 3.0 |
| One of the following courses: PHIL 385 Philosophy of Law | PHIL 231 | Aesthetics | 3.0 |
| PHIL 385 Philosophy of Law | PHIL 381 WI | Philosophy in Literature | 3.0 |
| | One of the follo | wing courses: | |
| PHIL 391 Philosophy of Religion | PHIL 385 | Philosophy of Law | 3.0 |
| | PHIL 391 | Philosophy of Religion | 3.0 |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Philosophy in Science and Technology Certificate

18.0 quarter credits

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

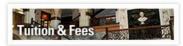
| 5 | 18.0 Credits |
|---------------------------------------|--|
| Introduction to Western Philosophy | 3.0 |
| Critical Reasoning | 3.0 |
| Philosophy and Knowledge Organization | 3.0 |
| Philosophy of Technology | 3.0 |
| Philosophy of Medicine | 3.0 |
| ing courses: | |
| Philosophy of Science | 3.0 |
| Philosophy of the Social Sciences | 3.0 |
| | Introduction to Western Philosophy Critical Reasoning Philosophy and Knowledge Organization Philosophy of Technology Philosophy of Medicine ing courses: Philosophy of Science |











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Certificate in Writing and Publishing

The Department of English and Philosophy offers a program leading to a Certificate in Writing and Publishing (CWP). This certificate is currently available to Drexel University undergraduates in all majors. The program has three tracks: Professional Writing and Publishing; Creative Writing and Publishing; and the Comprehensive Certificate in Writing and Publishing.

About the program General requirements Professional Writing and Publishing track Creative Writing and Publishing track Comprehensive Certificate track











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel UNIVERSITY

Drexel UniversityCopyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Certificate in Writing and Publishing

About the Program

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

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

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

- The Certificate in Professional Writing and Publishing
- The Certificate in Creative Writing and Publishing
- The Comprehensive Certificate in Writing and Publishing

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

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

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

For additional information, contact the program director:

Miriam N. Kotzin, PhD
Director, Certificate Program in Writing and Publishing
Department of English and Philosophy
Drexel University
Philadelphia, PA 19104
kotzinmn@drexel.edu

Tel:

Fax: 215-895-1071 www.drexel.edu/coas/engphil











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Drexel

Drexel University

Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Professional Writing and Publishing

18.0 quarter credits

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

This track offers three focus options:

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

Business Communication and Publishing

| Required courses | | Credits |
|------------------|-------------------------------|---------|
| COM 270 WI | Business Communication | 3.0 |
| COM 350 WI | Message Design and Evaluation | 3.0 |
| or | | |
| COM 375 WI | Grant Writing | 3.0 |

Students select one of the following professional writing courses:

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

Students select one of the following publishing courses:

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

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

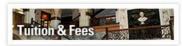
| COM 260 WI | Fundamentals of Journalism | 3.0 |
|------------|----------------------------|-----|
| COM 300 WI | On-line Journalism | 3.0 |
| COM 315 | Investigative Journalism | 3.0 |
| COM 390 WI | Global Journalism | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| WRIT 220 WI | Creative Non-Fiction | 3.0 |
|--|---|--------------------------|
| WRIT 225 WI | Creative Writing | 3.0 |
| WRIT 301 WI | Writing Poetry | 3.0 |
| WRIT 302 | Writing Fiction | 3.0 |
| WRIT 303 | Writing Humor and Comedy | 3.0 |
| WRIT 304 WI | Special Topics in Writing | 3.0 |
| WRIT 306 | Writing About the Media | 3.0 |
| Technical Cor Publishing Required coul | nmunication and | |
| COM 310 WI | Technical Communication | 3.0 |
| COM 375 WI | Grant Writing | 3.0 |
| professional v | ct one of the following vriting courses: | |
| COM 320 Wi | Science Writing | 3.0 |
| COM 350 WI | Message Design and Evaluation | 3.0 |
| COM 380 | Special Topics (as appropriate, Copy Editing for example) | 3.0 |
| COM 420 | Technical Editing | 3.0 |
| Students selection | ct one of the following urses: | |
| WRIT 310 | Literary Editing and Publishing | 3.0 |
| WRIT 400 | Writing in Cyberspace | 4.0 |
| COM 335 | Electronic Publishing | 3.0 |
| COM 340 | Desktop Publishing | 2.0 |
| | Desktop i ublishing | 3.0 |
| | ct any two additional Certificate in Writing and Publishing iding but not limited to the following: | 3.0 |
| | ct any two additional Certificate in Writing and Publishing | 3.0 |
| COM 260 WI | ct any two additional Certificate in Writing and Publishing iding but not limited to the following: | |
| courses, inclu | ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Fundamentals of Journalism | 3.0 |
| COM 260 WI COM 300 WI COM 390 WI | ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Fundamentals of Journalism On-line Journalism | 3.0 |
| COM 260 WI COM 300 WI COM 390 WI COM 315 | ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Fundamentals of Journalism On-line Journalism Global Journalism | 3.0 |
| COM 260 WI | ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Fundamentals of Journalism On-line Journalism Global Journalism Investigative Journalism | 3.0 3.0 3.0 |
| COM 260 WI COM 300 WI COM 390 WI COM 315 WRIT 220 WI | ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Fundamentals of Journalism On-line Journalism Global Journalism Investigative Journalism Creative Non-Fiction | 3.0 3.0 3.0 3.0 |

3.0

WRIT 303

Writing Humor and Comedy

| WRIT 304 WI | Special Topics in Writing | 3.0 |
|---|--|--|
| WRIT 306 | Writing About the Media | 3.0 |
| Journalism | | |
| Required cou | rse: | |
| COM 260 WI | Fundamentals of Journalism | 3.0 |
| Students sele journalism co | ct two of the following urses: On-line Journalism | 3.0 |
| COM 315 | | 3.0 |
| COM 390 WI | Investigative Journalism Global Journalism | 3.0 |
| Students sele publishing co | ct one of the following urses: | |
| publishing co | urses: | 2.0 |
| publishing co WRIT 310 | urses: Literary Editing and Publishing | 3.0 |
| publishing co WRIT 310 WRIT 400 | Literary Editing and Publishing Writing in Cyberspace | 4.0 |
| publishing co WRIT 310 WRIT 400 COM 335 | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing | 3.0 |
| publishing co WRIT 310 WRIT 400 | Literary Editing and Publishing Writing in Cyberspace | 3.0 |
| publishing co WRIT 310 WRIT 400 COM 335 COM 340 Students sele | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing | 3.0 |
| publishing co WRIT 310 WRIT 400 COM 335 COM 340 Students sele courses, inclu | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing Desktop Publishing ct any two additional Certificate in Writing and Publishing | 4.0 3.0 3.0 |
| publishing co WRIT 310 WRIT 400 COM 335 COM 340 Students sele courses, inclu | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing Desktop Publishing ct any two additional Certificate in Writing and Publishing adding but not limited to the following: | 3.0 3.0 3.0 |
| publishing co WRIT 310 WRIT 400 COM 335 COM 340 Students sele courses, inclu COM 270 WI or | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing Desktop Publishing ct any two additional Certificate in Writing and Publishing Iding but not limited to the following: Business Communication | 3.0 4.0 3.0 3.0 3.0 3.0 |
| publishing co WRIT 310 WRIT 400 COM 335 COM 340 Students sele courses, inclu COM 270 WI or COM 310 WI | Literary Editing and Publishing Writing in Cyberspace Electronic Publishing Desktop Publishing ct any two additional Certificate in Writing and Publishing adding but not limited to the following: Business Communication Technical Communication | 4.C 3.C 3.C 3.C |

3.0

3.0

3.0

3.0

3.0

3.0

3.0

WRIT 220 WI

WRIT 225 WI

WRIT 301 WI

WRIT 302

WRIT 303

WRIT 306

WRIT 304 WI

Creative Non-Fiction

Creative Writing

Writing Poetry

Writing Fiction

Writing Humor and Comedy

Special Topics in Writing

Writing About the Media

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Creative Writing and Publishing

18.0 quarter credits

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

| Students select three of the following creative writing courses (one of which must be a 200-level course) | | Credits |
|---|---------------------------|---------|
| WRIT 220 WI | Creative Non-Fiction | 3.0 |
| WRIT 225 WI | Creative Writing | 3.0 |
| WRIT 301 WI | Writing Poetry | 3.0 |
| WRIT 302 | Writing Fiction | 3.0 |
| WRIT 303 | Writing Humor and Comedy | 3.0 |
| WRIT 304 WI | Special Topics in Writing | 3.0 |
| WRIT 306 | Writing About the Media | 3.0 |

Students select one of the following publishing courses:

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

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

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

| COM 260 WI | Fundamentals of Journalism | 3.0 |
|------------|----------------------------|-----|
| COM 300 WI | On-line Journalism | 3.0 |
| COM 390 WI | Global Journalism | 3.0 |
| COM 315 | Investigative Journalism | 3.0 |
| COM 270 WI | Business Communication | 3.0 |
| COM 310 WI | Technical Communication | 3.0 |
| COM 320 WI | Science Writing | 3.0 |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| COM 350 WI | Message Design and Evaluation | 3.0 |
|------------|-------------------------------|-----|
| COM 420 | Technical Editing | 3.0 |
| COM 375 WI | Grant Writing | 3.0 |



Drexel University
Copyright © 2011. All rights reserved.

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Comprehensive Writing and Publishing

18.0 quarter credits

Otto dende enlant tons of the fallouding

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

| Students select two of the following publishing courses: | | Credits |
|--|------------------------------------|---------|
| WRIT 310 | Literary Editing and Publishing | 3.0 |
| WRIT 400 | Writing in Cyberspace | 3.0 |
| WRIT 405 | Internship in Literary Publishing* | 2.0 |
| COM 335 | Electronic Publishing | 3.0 |
| COM 340 | Desktop Publishing | 3.0 |
| * WRIT 405 Mu | st be taken twice. | |

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

Creative writing

| WRIT 220 WI | Creative Non-Fiction | 3.0 |
|-------------|-------------------------------------|-----|
| | Any 300-level writing (WRIT) course | 3.0 |
| or | | |
| WRIT 225 WI | Creative Writing | 3.0 |
| anu | Any 300-level writing (WRIT) course | 3.0 |

Professional writing

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

or

| Business Communication | 3.0 |
|------------------------|-----|
| | |
| Grant Writing | 3.0 |
| | |











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

| COM 350 WI | Message Design and Evaluation | 3.0 |
|----------------|-------------------------------|-----|
| Journalism | | |
| COM 260 WI | Fundamentals of Journalism | 3.0 |
| And one of the | following: | |
| COM 300 WI | On-line Journalism | 3.0 |
| COM 315 | Investigative Journalism | 3.0 |
| COM 390 WI | Global Journalism | 3.0 |



Drexel University Copyright © 2011. All rights reserved.