Table of Contents

The Goodwin College: School of Education *Undergraduate Programs*

About The School of Education	2
BS in Elementary Education	6
Elementary: PK-4 Certification	7
Elementary: PK-4 and Special Education Certification	
Middle Level Math and English Certification	
Middle Level Science and Math Certification	22
Middle Level Science and English Certification	27
BS in Teacher Education	
Biology (7-12) Certification	
Chemistry (7-12) Certification	38
Earth and Space Science (7-12) Certification	43
English (K-12) Certification	48
Environmental Education (K-12) Certification	54
General Science (7-12) Certification	
Mathematics (7-12) Certification	64
Physics (7-12) Certification	69
Social Studies Certification (7-12)	
Min on in Education	

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Goodwin College School of Education

The School of Education seeks to enrich knowledge and practice related to lifespan learning, based on the most current and appropriate research and practice. The goal of the school goal is to improve human understanding through programs and activities that emphasize creative uses of human effort, technology and problem solving.

The School of Education offers offer bachelor's, master's, and doctoral degrees in addition to a number of certification programs.

Title II Reporting

In compliance with Title II, Section 207, of the Higher Education Act of 1998 and General Standards for the Institutional Preparation of Professional Educators (Chapter 354), pass rates on the Praxis Series Exam for students prepared as teachers by Drexel University are available at the School of Education.

Combination Certifications

Combination certifications are available from teh School of Education. Sample combinations include:

- Biology certification, with courses for additional certification in chemistry.
- Chemistry certification, with courses for additional certification in biology.
- Earth and space science certification, with courses for additional certification in chemistry.
- Earth and space science certification, with courses for additional certification in physics.
- Mathematics certification, with courses for additional certification in physics.
- Physics certification, with courses for additional certification in mathematics.

Post-Graduate Opportunities

Students obtain employment in the School District of Philadelphia and neighboring school districts in Pennsylvania and such surrounding states as New Jersey, Delaware, Ohio, and New York. Often, students begin a graduate degree program in combination with their employment.

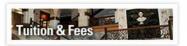
Visit the School of Education website for more information on graduate degree programs in education at Drexel.











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- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

The School of Education

About the Curriculum

Certification for classroom instruction is available in:

- Elementary education
 - Elementary: PK-4
 - Elementary: PK-4 and Special Education
 - Middle Level Math and English
 - Middle Level Science and English
 - Middle Level Science and Math
- Secondary education (grades 7-12)
 - Biology
 - Chemistry
 - Earth and Space Science
 - Enalish
 - General Science
 - Mathematics
 - Physics
 - Social Studies
- Secondary education (grades K-12)
 - Environmental Education

Students may acquire certification in more than one subject area.

The program in Teacher Education uses university-wide resources to prepare fully qualified mathematics and science teachers at both the elementary and secondary levels. It applies the microcomputer in teaching and learning, and it is the only such program in the country to incorporate a six-month paid internship in industry related to the student's area of certification (for example, a prospective chemistry teacher might co-op at a chemical company).

Because the program requires that students have a B average in content courses needed for certification, the student's content coursework is evaluated at the end of the sophomore year for formal admittance into the Teacher Preparation program. All students are expected to meet the B average requirement in content coursework before beginning pre-student field teaching experience. Students who fail to meet this requirement must take additional content coursework until the B average is met.

Students participate in two periods of direct teaching experience. The first period, in the junior year, consists of a ten-week field experience (EDUC 320 WI) through which students participate in limited teaching; on-campus coursework accompanies the field experience (EDUC 325 and EDUC 326 WI). In the senior year, students complete the 12-week student-teaching experience (EDUC 412 WI) required for certification. Students must receive a grade of at least B in student teaching and in all pedagogy coursework to be recommended for certification.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study. For more information, contact the Program Coordinator for the School of Education at

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.

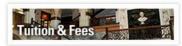
A "WI" next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling 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 Home
- About Drexel
- Accreditation
- Academic Policies



COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

The Goodwin College of Professional Studies School of Education

Co-operative Education

Drexel University has long been known for its co-operative education program, through which students combine periods of fulltime, career-related employment with their studies. Internship employment is a requirement for all teacher education majors.

The degree is completed in four years, and it includes one six-month internship period of full-time employment related to the student's initial area of teacher certification. The goal of the co-op program in teacher education is to provide real-world experiences for future teachers to use in their classrooms.

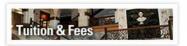
Students pursue varied positions geared directly to their area(s) of certification. For example, a student working toward certification in chemistry might seek employment in a corporate laboratory, just as a chemistry major would do. Some students, especially elementary certification majors, intern in liberal arts areas or such educationally oriented museums as Philadelphia's Please Touch Museum and the Franklin Institute Science Museum.











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- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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The Goodwin College of Professional Studies School of Education

Facilities

The Drexel Center for the Prevention of School-aged Violence is located within the School of Education at Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104. The mission of the center is to provide a research venue for investigating applications of creativity and the power of creativity as a force in uncovering hidden talents of youth of diverse age groups, cultures, and economic backgrounds.

The Multicultural Collaborative is a School of Education center that serves as a hub where scholars and communities beyond the university work together to create projects that transform the lives of all students.

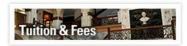
For more information about these and other School of Ecucation centers, visit the The Centers of Goodwin College.











LEARN MORE

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

BS in Elementary Education

About the Major

The BS in Elementary Education uses university-wide resources to prepare fully qualified teachers at the primary education levels. Primary teacher certification options include:

- Pre-Kindergarten Grade 4
- Pre-Kindergarten Grade 4 & Special Education
- Middle Level (grades 4-8) Mathematics and Science
- Middle Level (grades 4-8) Science and English
- Middle Level (grades 4-8) Mathematics and English

Students may acquire certification in more than one subject area.

The program requires that students have a B average (3.0 GPA) in content courses needed for teacher certification in addition to the grade of B or better in each EDUC course throughout their time in the program. These requirements must be satisfied in order for Drexel to recommend the student for teacher certification upon graduation and/or be considered to have completed the program.

A benchmark to assist students in meeting the GPA and B grade requirements is the formal review of each student's content and pedagogy coursework at the end of the sophomore year. Students who meet these requirements, as well as pass the *Pre-Professional Skills Test* (PPST Reading, PPST Writing, PPST Mathematics) of the *ETS Praxis Exams* according to Pennsylvania standards at that time, are officially accepted into Drexel's Teacher Preparation Program. Students who do not meet the requirements work with their academic advisor to develop a plan of action to work toward meeting the requirements, continue in the program to work toward the BS degree without being recommended for a teaching certificate, or explore another major.

Students participate in classroom observations and limited direct teaching experiences as a component of many of their pedagogy courses beginning in their freshman year. Students have the option of the following teacher certification/concentration tracks within their major which determines their individual program of study:

Elementary Education, Pre-Kindergarten through Grade 4: focused study to work with children in pre-kindergarten, kindergarten, and grades 1-4 across subject areas (ages 3-9). The competencies for this concentration include child development (birth through age 5), language development, early literacy and math foundations for preschool years, early intervention, integrating the arts for the developing child and family and community partnerships.

Elementary Education, Pre-Kindergarten through Grade 4 and Special Education: focused study to work with children in pre-kindergarten, kindergarten, and grades 1-4 across subject areas (ages 3-9) within the competencies listed previously as well as working with students with disabilities in pre-kindergarten, kindergarten and grades 1-8 (ages 3-14). The special education competencies emphasize the Response to Intervention process, working with students at risk for and with/without disabilities, progress monitoring techniques, research-based instructional practices and interventions.

Elementary Education, Middle Level: focused study to work with students in grades 4-6 across subjects and with students in grades 7-8 in two core academic subject(s) the teacher education candidate chooses to pursue:

- Middle School Mathematics & English
- Middle School Science & English
- Middle School Science & Math

In the senior year, students who are officially accepted into the Teacher Preparation Program and maintain the GPA and grade requirements, enroll and complete the 12-week, full-time, student-teaching experience (EDUC 410 WI) in their primary area of certification. Students must receive a grade of at least B in EDUC 410 (and EDUC 414 if applicable) and in all pedagogy (EDUC) coursework, as well as maintain an overall 3.0 GPA to be recommended for teacher certification.

Students who were not officially accepted into the Teacher Preparation Program and/or do not maintain the GPA and grade requirements but who are working towards the BS degree without being recommended for teacher certification take other courses as assigned by the Teacher Education Program Director and/or academic advisor to fulfill needed credits for the degree in lieu of student teaching.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study. For more information, contact the Program Coordinator for the School of Education at

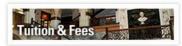
Additional information is available at the School of Education's web site.











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

BS in Elementary Education: PK-4

Bachelor of Science Degree: 180.5 quarter credits

Degree Requirements

Incoming students, 2011/2012

This certification enables teachers to work with children in prekindergarten, kindergarten, and grades 1-4 across subject areas. Required competencies are covered in areas such as child development, language development, early literacy and math foundations for preschool years, early intervention, integrating the arts for the developing child, and family and community partnerships.

For a sample plan of study listing the sequence of how courses should be completed, see the BS in Elementary Education: PK-4 Sequence page

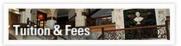
General education requirements	n/Content	65.0 Credits
BIO 100	Applied Cells, Genetics & Physiology	3.0
BIO 101	Applied Biological Diversity, Ecology & Evolution	3.0
CHEM 111	General Chemistry I	4.0
COM 111	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENVS 260	Environmental Science and Society	3.0
HIST 276	History of Philadelphia	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
MUSC 130	Introduction to Music	4.0
PHYS 151	Applied Physics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0
Nutrition elective*	3.0	











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

Free electives** 24.0

^{*}NFS 101 is the recommended Nutrition elective.

**Students wishing to receive PA Teacher Certification upon graduation in the area of Elementary Education should take EDUC 475 Conflict Resolution and Prevention School Violence as an elective.

Pedagogy requirements		89.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 120	Child Development I: Typical Development	3.0
EDUC 121	Child Development II: Atypical Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 210	Early Language Development	3.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 236	Early Literacy I	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 265	Instructing English Language Learners	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
EDUC 306	Assessment of Young Children I	3.0
EDUC 307	Assessment of Young Children II	4.0
EDUC 314	Elementary Science Teaching Methods	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 317	Math: Methods and Content: Early Childhood	3.0
EDUC 318	Elementary Math Methods and Content	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 326 WI	Language Arts Processes	3.0
EDUC 335	Engaging the Learner	3.0
EDUC 336	Early Literacy II	3.0
EDUC 338	Expressive Arts for PreK-4	3.0
EDUC 355	Social Studies Teaching Methods	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 411	Family and Community Partnerships	3.0
EDUC 355	Social Studies Teaching Methods	3.0

Student teaching experience

EDUC 410 Student Teaching 9.0

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.



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Recommended Plan Of Study

BS Elementary Education, PK-4
4 YR UG Co-op Concentration /Elementary PK-4

Term 1		Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 120	Child Development I: Typical Development	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 181	Mathematical Analysis I	3.0
PSY 101	General Psychology I	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	17.0
Term 2		Credits
BIO 100	Applied Cells, Genetics & Physiology	3.0
COM 111	Principles of Communication	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 121	Child Development II: Atypical Development	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 182	Mathematical Analysis II	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	17.0
Term 3		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
	Science Teaching Methods	3.0
	Special Education Foundations: Referral and Assessment	4.5
	Analytical Writing and Reading	3.0
MATH 183	<u> </u>	3.0
NFS 101	Introduction to Nutrition & Food	3.0
	Term Credits	17.5
Term 4		Credits
BIO 101	Applied Biological Diversity, Ecology & Evolution	3.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 236	Early Literacy I	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
	ENGL 200 through ENGL 399	3.0
	Term Credits	14.5
Term 5		Credits
EDUC 217		3.0
EDUC 265	Instructing English Language Learners	3.0
EDUC 326	Language Arts Processes	3.0
HIST 276	The History of Philadelphia	3.0
PHYS 151	Applied Physics	3.0
	Term Credits	15.0

Term 6		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 210	Early Language Development	3.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 246	Literacy and Content Skill Development	4.5
	Term Credits	14.5
Term 7		Credits
CHEM 111	General Chemistry I	4.0
EDUC 305	•	1.0
	Current Research in Curriculum & Instruction	3.0
EDUC 325		3.0
PSY 320	Educational Psychology	3.0
SOC 335	Sociology of Education I	3.0
	Term Credits	17.0
Term 8		Credits
EDUC 218	Math: Methods & Content	3.0
	Assessment of Young Children I	3.0
	Engaging the Learner	3.0
	Social Studies Teaching Methods	3.0
ENVS 260	Environmental Science and Society I	3.0
	Term Credits	15.0
Term 9		Credits
EDUC 307	Assessment of Young Children II	4.0
EDUC 336		3.0
	Free electives	9.0
	Term Credits	16.0
Term 10		Credits
EDUC 338	Expressive Arts for PK-4	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 411	Family and Community Partnerships	3.0
MUSC 130	Introduction to Music	3.0
PSY 330	Cognitive Psychology	3.0
	Term Credits	13.0
Term 11		Credits
EDUC 410	Student Teaching	9.0
	Free elective	3.0
	Term Credits	12.0
Term 12		Credits
	Free electives	12.0
	Term Credits	12.0
	Total Credits (minimum)	180.5

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

2.0

BS in Elementary Education: PK-4 and Special Education

Bachelor of Science Degree: 188.0 quarter credits

Degree Requirements

Incoming students, 2011/2012

UNIV 101

This certification enables teachers to work with children in prekindergarten, kindergarten, and grades 1-4 across subject areas. Required competencies are covered in areas such as child development, language development, early literacy and math foundations for preschool years, early intervention, integrating the arts for the developing child, and family and community partnerships.

In addition, this certification enables teachers to work with students with disabilities in prekindergarten, kindergarten, and grades 1-4. Students will learn how to work with students at risk for disabilities or with disabilities, progress monitoring techniques, research based instructional practices, and interventions.

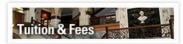
For a sample plan of study listing the sequence of how courses should be completed, see the BS in Elementary Education: PK-4 and Special Education Sequence page.

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Schedule of Classes	1









General education/Content	65.0 Credits
requirements	oo.o oreuita

BIO 100	Applied Cells, Genetics & Physiology	3.0
BIO 101	Applied Biological Diversity, Ecology & Evolution	3.0
CHEM 111	General Chemistry I	4.0
COM 111	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	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
ENVS 260	Environmental Science and Society	3.0
HIST 276	History of Philadelphia	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
MUSC 130	Introduction to Music	4.0
PHYS 151	Applied Physics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education	3.0

The Drexel Experience

- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

	English elective course between 200-329	3.0
Nutrition elective*	3.0	

*NFS 101 is the recommended Nutrition elective.

Pedagogy requir	rements	90.0 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 120	Child Development I: Typical Development	3.0
EDUC 121	Child Development II: Atypical Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 236	Early Literacy I	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 265	Instructing English Language Learners	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
EDUC 314	Elementary Science Teaching Methods	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 317	Math: Methods and Content: Early Childhood	3.0
EDUC 318	Elementary Math Methods and Content	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 326 WI	Language Arts Processes	3.0
EDUC 335	Engaging the Learner	3.0
EDUC 336	Early Literacy II	3.0
EDUC 338	Expressive Arts for PreK-4	3.0
EDUC 355	Social Studies Teaching Methods	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 411	Family and Community Partnerships	3.0
EDUC 355	Social Studies Teaching Methods	3.0
Special Education	on Core Courses	31.5
EDUC 347	Special Education Processes	4.5
EDUC 348	Emotional & Behavioral Support	4.5

EDUC 414	Special Education: Field Placement	9.0
EDUC 353	Special Education: Methods & Practices	4.5
EDUC 352	Integrating Technology for Learning & Achievement	4.5
EDUC 351	Pervasive Developmental Disorders	4.5
EDUC 350	Low Incident Disabilities	4.5
EDUC 349	High Incident Disabilities	4.5

9.0
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Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student's major. The third can be in any discipline. Students are advised to take one 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.



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Recommended Plan Of Study

BS Elementary Education, PK-4 & Special Ed 4 YR UG Co-op Concentration /Elementary PK-4 & Special Ed

Term 1		Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical	3.0
	Perspective	3.0
	Freshman Pedagogy Seminar	1.0
EDUC 120	Child Development I: Typical Development	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 181	Mathematical Analysis I	3.0
PSY 101	General Psychology I	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	17.0
Term 2		Credits
BIO 100	Applied Cells, Genetics & Physiology	3.0
COM 111	Principles of Communication	3.0
EDUC 105	· · · · · · · · · · · · · · · · · · ·	1.0
EDUC 121		3.0
ENGL 102		3.0
MATH 182		3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	17.0
Term 3		Credits
EDUC 105	0 07	1.0
EDUC 114		3.0
EDUC 142		4.5
ENGL 103	, , , , , , , , , , , , , , , , , , , ,	3.0
<u>MATH 183</u>	•	3.0
NFS 101	Introduction to Nutrition & Food	3.0
	Term Credits	17.5
Term 4		Credits
BIO 101	Applied Biological Diversity, Ecology & Evolution	3.0
EDUC 205		1.0
EDUC 236	Early Literacy I	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
	Term Credits	11.5
Term 5		Credits
EDUC 217	Math Methods and Content: Early Childhood	3.0
EDUC 265	Instructing English Language Learners	3.0
EDUC 326	Language Arts Processes	3.0
HIST 276	The History of Philadelphia	3.0
PHYS 151	Applied Physics	3.0
	ENGL 200 through ENGL 399	3.0
	Term Credits	18.0
	TOTH OF CORES	10.0

Term 6		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 347	Special Education Processes	4.5
	Term Credits	16.0
Term 7		Credits
	General Chemistry I	4.0
EDUC 305	-	1.0
EDUC 324	<u> </u>	3.0
EDUC 338	Expressive Arts for PK-4	3.0
EDUC 353	Special Education: Methods & Practices	4.5
PSY 320	Educational Psychology	3.0
	Term Credits	18.5
Term 8		Credits
	Math: Methods & Content	3.0
	Assessment of Young Children II	4.0
	Engaging the Learner	3.0
	Emotional & Behavioral Support	4.5
	Social Studies Teaching Methods	3.0
ENVS 260	Environmental Science and Society I	3.0
	Term Credits	20.5
Term 9		Credits
EDUC 336	Early Literacy II	3.0
EDUC 349	·	4.5
EDUC 351	Pervasive Developmental Disorders	4.5
	Term Credits	12.0
Term 10		Credits
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
EDUC 411	Family and Community Partnerships	3.0
	Term Credits	13.0
Term 11		Credits
EDUC 352	Integrating Technology for Learning & Achievement	4.5
EDUC 414	Special Education: Field Placement Seminar	9.0
	Term Credits	13.5
T 40		One alite
Term 12	Low Insident Dischilities	Credits
EDUC 350	Low Incident Disabilities	4.5
MUSC 130	Introduction to Music	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education I	3.0
	Term Credits	13.5
	Total Credits (minimum)	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

BS in Elementary Education: Middle Level Math and English

Bachelor of Science Degree: 180.5 quarter credits

Degree requirements

Incoming students, 2011/2012

This certification enables to teachers to work with students in grades 4-6 across subjects, and with students in grades 7-8 in the core academic subjects of mathematics and English. Additional information about the degree is available at the School of Education's web site.

For a sample plan of study listing the sequence of how courses should be completed, see the BS in Elementary Education: Middle Level Math and English Sequence page.

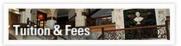
General education/Content requirements		82.0 Credits
ARTH 101	History of Art	3.0
BIO 161	General Biology I	3.0
BIO 162	General Biology I	3.0
CHEM 111	General Chemistry I	4.0
COM 111	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 304	Young Adult Fiction	3.0
ENVS 260	Environmental Science and Society	3.0
HIST 276	History of Philadelphia	3.0
LING 101	Linguistic Analysis	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
MUSC 130	Introduction to Music	4.0
PHYS 151	Applied Physics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education	3.0











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

One of the following American History courses:

Free electives**		12.0	
Nutrition elective*		3.0	
HIST 203	US History since 1900		3.0
HIST 202	US History, 1815-1900		3.0
HIST 201	US History to 1815		3.0

^{*}NFS 101 is the recommended Nutrition elective.

^{**}Students wishing to receive PA Teacher Certification upon graduation in the area of Elementary Education should take EDUC 475 Conflict Resolution and Prevention School Violence as an elective.

Pedagogy requirements		92.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 240	Proportional Reasoning in Middle School	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 256	Teaching Writing Grades 4-8	3.0
EDUC 257	Content Area Reading (Grades 4-8)	3.0
EDUC 265	Instructing English Language Learners	3.0
EDUC 284	Teaching Life Science in the Middle School	3.0
EDUC 285	Teaching Physical Science in the Middle School	3.0
EDUC 286	Teaching Earth & Space Science for Middle School	3.0
EDUC 292	Science Methods for Middle School	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
EDUC 306	Assessment of Young Children I	3.0
EDUC 307	Assessment of Young Children II	4.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 314	Elementary Science Teaching Methods	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 318	Math: Methods and Content	3.0

EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 326 WI	Language Arts Processes	3.0
EDUC 328	Language Arts Processes 4-8	3.0
EDUC 355	Social Studies Teaching Methods	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
	·	

Student teaching experience

EDUC 410	Student Teaching		9.0
EDUC 410	Student Teaching	,	9.0

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.

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Recommended Plan Of Study

BS Elementary Education, Middle Level Math and English

4 YR UG Co-op Concentration / Middle Level Math & English

Term 1		Credits
BIO 161	General Biology I	3.0
EDUC 101		3.0
	Perspective	4.0
	Freshman Pedagogy Seminar	1.0
-	Adolescent Development	3.0
ENGL 101	<u> </u>	3.0
MATH 181		3.0
	Term Credits	16.0
Term 2		Credits
COM 111	Principles of Communication	3.0
EDUC 105	•	1.0
EDUC 115		3.0
ENGL 102		3.0
	Mathematical Analysis II	3.0
UNIV 101	· · · · · · · · · · · · · · · · · · ·	2.0
	Term Credits	15.0
	Tomi Ground	1010
Term 3		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 114		3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
LING 101	Introduction to Linguistics	3.0
MATH 183		3.0
	Term Credits	17.5
Term 4		Credits
BIO 162	General Biology II	3.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
PSY 101	General Psychology I	3.0
	Term Credits	14.5
Term 5		Credits
EDUC 240	Proportional Reasoning in Middle School	3.0
EDUC 265	Instructing English Language Learners	3.0
EDUC 328	Language Arts Processes 4-8	3.0
HIST 276	The History of Philadelphia	3.0
<u>PHYS 151</u>	Applied Physics	3.0
	Term Credits	15.0
_		
Term 6		Credits
ECON 201		

	Principles of Microeconomics	4.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 257	Content Area Reading (Grades 4-8)	3.0
ENGL 304	Young Adult Fiction	3.0
	Term Credits	17.5
Torm 7		Cradita
Term 7	General Chemistry I	Credits 4.0
	Junior Pedagogy Seminar	1.0
	Current Research in Curriculum & Instruction	3.0
	Multimedia in Instructional Design	3.0
PSY 320	Educational Psychology	3.0
SOC 335	Sociology of Education I	3.0
	Term Credits	17.0
	Tomi Ground	
Term 8		Credits
EDUC 218	Math: Methods & Content	3.0
EDUC 256	Teaching Writing Grades 4-8	3.0
	Assessment of Young Children I	3.0
EDUC 355	Social Studies Teaching Methods	3.0
ENVS 260	Environmental Science and Society I	3.0
	Term Credits	15.0
Taum 0		Cradita
Term 9 EDUC 307	Assessment of Young Children II	Credits 4.0
	Computer Applications in Teaching	3.0
	Language Arts Processes	3.0
	Introduction to Math Teaching Methods (4-8)	3.0
	Algebraic Reasoning	3.0
	Term Credits	16.0
Term 10		Credits
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 417	Advanced Math Teachng Methods (4-8)	3.0
EDUC 433	Functions in Middle School Math	3.0
MUSC 130	Introduction to Music	3.0
PSY 330	Cognitive Psychology	3.0
	Term Credits	13.0
Term 11		Credits
EDUC 410	Student Teaching	9.0
	Free elective	3.0
	Term Credits	12.0
Term 12		Credits
<u>ARTH 101</u>	History of Art I: Ancient to Medieval	3.0
NFS 101	Introduction to Nutrition & Food	3.0
HIST 201	US History to 1815	3.0
or	HO History share 4000	• •
HIST 203	US History since 1900	3.0
or <u>HIST 202</u>	US History 1815-1900	2.0
11101 202	US History, 1815-1900 Free elective	3.0 3.0
	Term Credits	12.0
	Tomi Ordano	12.0
	Total Credits (minimum)	180.5

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

BS in Elementary Education: Middle Level Science and Math

Bachelor of Science Degree: 180.5 quarter credits

Degree Requirements

Incoming students, 2011/2012

This certification enables to teachers to work with students in grades 4-6 across subjects, and with students in grades 7-8 in the core academic subjects of science and mathematics. Additional information about the degree is available at the School of Education's web site.

For a sample plan of study listing the sequence of how courses should be completed, see the BS in Elementary Education: Middle Level Science and Math Sequence page.

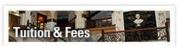
General education/Content requirements		88.0 Credits
ARTH 101	History of Art	3.0
BIO 161	General Biology I	3.0
BIO 162	General Biology I	3.0
CHEM 111	General Chemistry I	4.0
COM 111	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENVS 260	Environmental Science and Society	3.0
HIST 276	History of Philadelphia	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
MUSC 130	Introduction to Music	4.0
PHYS 151	Applied Physics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education	3.0
UNIV 101	The Drexel Experience	2.0











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

One of the following American History courses:

HIST 201 HIST 202 HIST 203	US History to 1815 US History, 1815-1900 US History since 1900		3.0 3.0 3.0
Nutrition elective*		3.0	
Free electives**		9.0	

^{*}NFS 101 is the recommended Nutrition elective.

Pedagogy requirements 101.5 Credits Foundations in Education I: A Historical **EDUC 101** 3.0 and Philosophical Perspective **EDUC 105** Freshman Seminar 3.0 **EDUC 115** Reasoning about Numbers/Quantity (4-8) 3.0 **EDUC 123** Adolescent Development 3.0 **EDUC 142** Special Education Foundations 4.5 **EDUC 205** Sophomore Pedagogy Seminar 1.0 **EDUC 216** Diversity and Today's Teacher 3.0 **EDUC 223** Teaching the Middle School Child 3.0 **EDUC 240** Proportional Reasoning in Middle School 3.0 Inclusionary Practices for Exceptional EDUC 244 4.5 Students **EDUC 246** Literacy Development 4.5 **EDUC 265** Instructing English Language Learners 3.0 Teaching Life Science in the Middle **EDUC 284** 3.0 School Teaching Physical Science in the Middle **EDUC 285** 3.0 Teaching Earth & Space Science for **EDUC 286** 3.0 Middle School **EDUC 292** Science Methods for Middle School 3.0 **EDUC 305** 1.0 Junior Pedagogy Seminar **EDUC 306** Assessment of Young Children I 3.0 **EDUC 307** Assessment of Young Children II 4.0 **EDUC 310** Computer Applications in Teaching 3.0 **EDUC 314 Elementary Science Teaching Methods** 3.0 **EDUC 315** Secondary Science Teaching Methods 3.0 Math: Methods and Content: Early **EDUC 317** 3.0 Childhood Current Research in Curriculum and **EDUC 324** 3.0 Instruction

^{**}Students wishing to receive PA Teacher Certification upon graduation in the area of Elementary Education should take EDUC 475 Conflict Resolution and Prevention School Violence as an elective.

EDUC 325	Multimedia in Instructional Design	3.0
EDUC 326 WI	Language Arts Processes	3.0
EDUC 355	Social Studies Teaching Methods	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 416	Introduction to Math Teaching Methods (4-8)	3.0
EDUC 417	Advanced Math Teaching Methods (4-8)	3.0
EDUC 432	Algebraic Reasoning	3.0
EDUC 433	Functions in Middle School Math	3.0

Student teaching experience

		<u> </u>
EDUC 410	Student Teaching	9.0

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.

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Recommended Plan Of Study

BS Elementary Education, Middle Level Science and Math

4 YR UG Co-op Concentration / Middle Level Science & Math

SIO_161 General Biology	Term 1		Credits
Perspective	BIO 161	General Biology I	3.0
EDUC 123 Adolescent Development 3.0 ENGL 101 Expository Writing and Reading 3.0 MATH 181 Mathematical Analysis 3.0 Term Credits 16.0 Term 2 Credits 16.0 Term 2 Credits 3.0 EDUC 105 Freshman Pedagogy Seminar 1.0 ENGL 102 Persuasive Writing and Reading 3.0 MATH 182 Mathematical Analysis 1 3.0 MATH 182 Mathematical Analysis 1 3.0 MUSC 130 Introduction to Music 3.0 UNIV 101 The Drexel Experience 2.0 Term 3 Credits 15.0 Term 3 Credits 15.0 Term 3 Credits 1.0 EDUC 114 Science Teaching Methods 3.0 EDUC 115 Reasoning about Numbers/Quantity (4-8) 3.0 EDUC 114 Special Education Foundations: Referral and Assessment 4.5 ENGL 103 Analytical Writing and Reading 3.0 MATH 183 Mathematical Analysis III 3.0 Term Credits 17.5 Term 4 Credits 17.5 Term 4 Credits 17.5 Term 4 Credits 17.5 Term 5 Credits 17.5 Term 6 Credits 17.5 Term 7 Term 7 Term 7 Term 7 Term 8 Credits 17.5 Term 9 Credits 17.5 Term 15 Credits 17.5 Term 16 Credits 17.5 Term 17 Term 18 Credits 17.5 Term 18 Credits 17.5 Term 19 Credits	EDUC 101	•	3.0
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MATH 181 Mathematical Analysis 3.0 Term Credits 16.0	EDUC 123	Adolescent Development	3.0
Term 2	ENGL 101	Expository Writing and Reading	3.0
Term 2 Credits COM.111 Principles of Communication 3.0 EDUC 105 Freshman Pedagogy Seminar 1.0 ENGL 102 Persuasive Writing and Reading 3.0 MATH 182 Mathematical Analysis II 3.0 MUSC 130 Introduction to Music 3.0 UNIV 101 The Drexel Experience 2.0 Term Credits 15.0 Term 3 Credits EDUC 105 Freshman Pedagogy Seminar 1.0 EDUC 105 Freshman Pedagogy Seminar 1.0 EDUC 115 Reasoning about Numbers/Quantity (4-8) 3.0 EDUC 124 Special Education Foundations: Referral and Assessment 4.5 ENGL 103 Analytical Writing and Reading 3.0 MATH 183 Mathematical Analysis III 3.0 MATH 183 Mathematical Analysis III 3.0 Term Credits 17.5 Term 4 Credits BIO 162 General Biology II 3.0 EDUC 205 Sophomore Pedagogy Seminar 1.0 EDUC	MATH 181	Mathematical Analysis I	3.0
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EDUC 142 Special Education Foundations: Referral and Assessment ENGL 103 Analytical Writing and Reading 3.0 MATH 183 Mathematical Analysis III 3.0 Term Credits 17.5 Term 4 Credits BIO 162 General Biology II 50 Sophomore Pedagogy Seminar 50 EDUC 205 Sophomore Pedagogy Seminar 50 EDUC 223 Teaching the Middle School Child 50 EDUC 224 Inclusionary Practices for Exceptional Students 50 HIST 276 The History of Philadelphia 50 Term Credits 50 Credits 51 EDUC 240 Proportional Reasoning in Middle School 51 EDUC 240 Proportional Reasoning in Middle School 52 EDUC 241 Teaching Life Science in the Middle School 52 EDUC 242 Teaching Life Science in the Middle School 53 EDUC 243 Teaching Life Science in the Middle School 54 EDUC 245 Teaching Physical Science in the Middle School 55 EDUC 285 Teaching Physical Science in the Middle School 56 EDUC 285 Teaching Physical Science in the Middle School 57 Term Credits 58 Credits 59 Term Credits 59 Term Credits 50 Credits 50 Term Credits 50 Credits 51 School 50 Term Credits 50 Credits 50 Term Credits 50 Credits 51 School 51 School 52 Term Credits 50 Credits 51 School 52 School 53 School 54 School 55 School 56 School 57 School 58 School 59 School 50 School	EDUC 114	Science Teaching Methods	3.0
ENGL 103 Analytical Writing and Reading MATH 183 Mathematical Analysis III Term Credits Term Credits 17.5 Term 4 Credits BIO 162 General Biology II EDUC 205 Sophomore Pedagogy Seminar EDUC 223 Teaching the Middle School Child EDUC 224 Inclusionary Practices for Exceptional Students HIST 276 The History of Philadelphia Term Credits Term 5 Credits EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School Term Credits Term Credits Term Credits Term Credits Credits Credits Credits Term Credits Term Credits Term Credits Term Credits Term Credits Term Credits	EDUC 115	Reasoning about Numbers/Quantity (4-8)	3.0
MATH 183 Mathematical Analysis III 3.0 Term Credits 17.5 Term 4 Credits BIO 162 General Biology II 3.0 EDUC 205 Sophomore Pedagogy Seminar 1.0 EDUC 223 Teaching the Middle School Child 3.0 EDUC 244 Inclusionary Practices for Exceptional Students 4.5 HIST 276 The History of Philadelphia 3.0 Term Credits 14.5 Term 5 Credits EDUC 240 Proportional Reasoning in Middle School 3.0 EDUC 265 Instructing English Language Learners 3.0 EDUC 284 Teaching Life Science in the Middle School 3.0 EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term Credits 15.0	EDUC 142	Special Education Foundations: Referral and Assessment	4.5
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Term 4 Credits BIO 162 General Biology II 3.0 EDUC 205 Sophomore Pedagogy Seminar 1.0 EDUC 223 Teaching the Middle School Child 3.0 EDUC 244 Inclusionary Practices for Exceptional Students 4.5 HIST 276 The History of Philadelphia 3.0 Term Credits 14.5 Term 5 Credits EDUC 240 Proportional Reasoning in Middle School 3.0 EDUC 265 Instructing English Language Learners 3.0 EDUC 284 Teaching Life Science in the Middle School 3.0 EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits Credits	MATH 183	Mathematical Analysis III	3.0
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EDUC 223 Teaching the Middle School Child EDUC 244 Inclusionary Practices for Exceptional Students HIST 276 The History of Philadelphia Term Credits 14.5 Term 5 Credits EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School PHYS 151 Applied Physics Term Credits Term Credits Credits	BIO 162	General Biology II	3.0
EDUC 244 Inclusionary Practices for Exceptional Students HIST 276 The History of Philadelphia 3.0 Term Credits 14.5 Term 5 Credits EDUC 240 Proportional Reasoning in Middle School 3.0 EDUC 265 Instructing English Language Learners 3.0 EDUC 284 Teaching Life Science in the Middle School 3.0 EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term 6 Credits			1.0
HIST 276 The History of Philadelphia 3.0 Term Credits 14.5 Term 5 Credits EDUC 240 Proportional Reasoning in Middle School 3.0 EDUC 265 Instructing English Language Learners 3.0 EDUC 284 Teaching Life Science in the Middle School 3.0 EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term 6 Credits	EDUC 223	Teaching the Middle School Child	3.0
Term Credits 14.5 Term 5 EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School PHYS 151 Applied Physics Term Credits 14.5 Credits Credits Credits	EDUC 244		4.5
Term 5 EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School PHYS 151 Applied Physics Term Credits Credits	HIST 276	The History of Philadelphia	3.0
EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School PHYS 151 Applied Physics Term Credits 3.0 Credits		Term Credits	14.5
EDUC 240 Proportional Reasoning in Middle School EDUC 265 Instructing English Language Learners EDUC 284 Teaching Life Science in the Middle School EDUC 285 Teaching Physical Science in the Middle School PHYS 151 Applied Physics Term Credits 3.0 Credits	Term 5		Credite
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EDUC 284 Teaching Life Science in the Middle School 3.0 EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term 6 Credits		<u> </u>	
EDUC 285 Teaching Physical Science in the Middle School 3.0 PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term 6 Credits			
PHYS 151 Applied Physics 3.0 Term Credits 15.0 Term 6 Credits			
Term Credits 15.0 Term 6 Credits			
Term 6 Credits			
		Tomi Ordato	13.0
	Term 6		Credits

	Principles of Microeconomics	4.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 246	Literacy and Content Skill Development	4.5
PSY 101	General Psychology I	3.0
	Free elective	3.0
	Term Credits	17.5
Term 7		Credits
	General Chemistry I	4.0
	Junior Pedagogy Seminar	1.0
	Current Research in Curriculum & Instruction	3.0
	Multimedia in Instructional Design	3.0
PSY 320	Educational Psychology	3.0
SOC 335	Sociology of Education I	3.0
	Term Credits	17.0
		• "
Term 8		Credits
EDUC 218		3.0
	Assessment of Young Children I	3.0
	Learning Disabilities	3.0
ENVS 260	Social Studies Teaching Methods Environmental Science and Society I	3.0
<u>ENVS 200</u>	•	3.0
	Term Credits	15.0
Term 9		Credits
EDUC 286	Teaching Earth & Space Science for Middle School	3.0
	Assessment of Young Children II	4.0
	Computer Applications in Teaching	3.0
	Introduction to Math Teaching Methods (4-8)	3.0
	Algebraic Reasoning	3.0
	Term Credits	16.0
	- Tomic ordina	
Term 10		Credits
EDUC 292	Science Methods for Middle School	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 417	Advanced Math Teachng Methods (4-8)	3.0
EDUC 433	Functions in Middle School Math	3.0
PSY 330	Cognitive Psychology	3.0
	Term Credits	13.0
Term 11		Credits
EDUC 410	Student Teaching	9.0
	Free elective	3.0
	Term Credits	12.0
Term 12		Credits
ARTH 101	History of Art I: Ancient to Medieval	3.0
NFS 101	Introduction to Nutrition & Food	3.0
<u>HIST 201</u>	US History to 1815	3.0
Or	US History since 1000	2.2
HIST 203	US History since 1900	3.0
or <u>HIST 202</u>	US History, 1815-1900	3.0
	Free elective	3.0
	Term Credits	12.0
	Total Credits (minimum)	180.5

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

BS in Elementary Education: Middle Level Science and English

Bachelor of Science Degree: 180.5 quarter credits

Degree Requirements

Incoming students, 2011/2012

This certification enables to teachers to work with students in grades 4-6 across subjects, and with students in grades 7-8 in the core academic subjects of science and English. Additional information about the degree is available at the School of Education's web site

For a sample plan of study listing the sequence of how courses should be completed, see the BS in Elementary Education: Middle Level Science and English Sequence page.

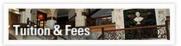
General education/Content requirements		88.0 Credits
ARTH 101	History of Art	3.0
BIO 161	General Biology I	3.0
BIO 162	General Biology I	3.0
CHEM 111	General Chemistry I	4.0
COM 111	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 304	Young Adult Fiction	3.0
ENVS 260	Environmental Science and Society	3.0
HIST 276	History of Philadelphia	3.0
LING 101	Linguistic Analysis	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis II	3.0
MATH 183	Mathematical Analysis III	3.0
MUSC 130	Introduction to Music	4.0
PHYS 151	Applied Physics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
PSY 330	Cognitive Psychology	3.0
SOC 335	Sociology of Education	3.0











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

One of the following American History courses:

HIST 201 HIST 202 HIST 203	US History to 1815 US History, 1815-1900 US History since 1900		3.0 3.0 3.0
Nutrition elective*		3.0	
Free electives**		9.0	

^{*}NFS 101 is the recommended Nutrition elective.

^{**}Students wishing to receive PA Teacher Certification upon graduation in the area of Elementary Education should take EDUC 475 Conflict Resolution and Prevention School Violence as an elective.

Pedagogy requirements		92.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 115	Reasoning about Numbers/Quantity (4-8)	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 240	Proportional Reasoning in Middle School	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 265	Instructing English Language Learners	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
EDUC 306	Assessment of Young Children I	3.0
EDUC 307	Assessment of Young Children II	4.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 314	Elementary Science Teaching Methods	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 318	Math: Methods and Content	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 326 WI	Language Arts Processes	3.0
EDUC 328	Language Arts Processes 4-8	3.0
EDUC 355	Social Studies Teaching Methods	3.0

EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 416	Introduction to Math Teaching Methods (4-8)	3.0
EDUC 417	Advanced Math Teaching Methods (4-8)	3.0
EDUC 432	Algebraic Reasoning	3.0
EDUC 433	Functions in Middle School Math	3.0

Student teaching experience

EDITIO 440	Ot 1 T	0.0
EDUC 410	Student Teaching	9.0

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.



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Recommended Plan Of Study

BS Elementary Education, Middle Level Science and English

4 YR UG Co-op Concentration / Middle Level Science & English

Tames 4		One dite
Term 1	Company Diploma I	Credits
BIO 161	General Biology I	3.0
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 123	Adolescent Development	3.0
ENGL 101	Expository Writing and Reading	3.0
MATH 181	Mathematical Analysis I	3.0
	Term Credits	16.0
Term 2		Credits
COM 111	Principles of Communication	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 182	Mathematical Analysis II	3.0
MUSC 130	Introduction to Music	3.0
UNIV 101	The Drexel Experience	2.0
	Term Credits	15.0
Term 3		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 114	Science Teaching Methods	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
LING 101	Introduction to Linguistics	3.0
MATH 183	Mathematical Analysis III	3.0
	Term Credits	17.5
Term 4		Credits
BIO 162	General Biology II	3.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
HIST 276	The History of Philadelphia	3.0
PSY 101	General Psychology I	3.0
	Term Credits	17.5
Term 5		Credits
EDUC 265	Instructing English Lang. Learners	3.0
EDUC 284	Teaching Life Science in the Middle School	3.0
EDUC 285	Teaching Physical Science in the MS	3.0
EDUC 328	Language Arts Processes 4-8	3.0
PHYS 151	Applied Physics	3.0
	Term Credits	15.0

Term 6		Credits
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 246	Literacy and Content Skill Development	4.5
	Content Area Reading (Grades 4-8)	3.0
ENGL 304	Young Adult Fiction	3.0
	Term Credits	13.5
Term 7		Credits
	General Chemistry I	4.0
	Junior Pedagogy Seminar	1.0
	Current Research in Curriculum & Instruction	3.0
	Multimedia in Instructional Design	3.0
PSY 320	Educational Psychology	3.0
SOC 335	Sociology of Education I	3.0
	Term Credits	17.0
_		
Term 8		Credits
EDUC 218		3.0
EDUC 256	Teaching Writing Grades 4-8	3.0
	Assessment of Young Children I	3.0
	Social Studies Teaching Methods	3.0
ENVS 260	Environmental Science and Society I	3.0
	Term Credits	15.0
		• "
Term 9	Tracking Footh 0 Opens Orions for Middle Orbert	Credits
EDUC 286	Teaching Earth & Space Science for Middle School	3.0
	Assessment of Young Children II	4.0
	Computer Applications in Teaching	3.0
EDUC 328	Language Arts Processes 4-8	3.0
	Free elective	3.0
	Term Credits	16.0
Term 10		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 292	Science Methods for Middle School	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
PSY 330	Cognitive Psychology	3.0
	Free elective	3.0
	Term Credits	14.0
	Term Oreans	14.0
Term 11		Credits
EDUC 410	Student Teaching	9.0
	Free elective	3.0
	Term Credits	12.0
	- Com Creane	,
Term 12		Credits
ARTH 101	History of Art I: Ancient to Medieval	3.0
NFS 101	Introduction to Nutrition & Food	3.0
HIST 201	US History to 1815	3.0
or	, as a series of the series of	
HIST 203	US History since 1900	3.0
or	-	
HIST 202	US History, 1815-1900	3.0
	Free elective	3.0
	Term Credits	12.0
	Total Credits (minimum)	180.5

COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

BS in Teacher Education

About the Major

The BS in Teacher Education, is focused on secondary education, and provides graduates with the background to work with students in grades 7-12* in a specific subject area. Students may work with their academic advisor to satisfy teacher certification requirements for multiple areas if desired. Available certification areas include:

- Biology
- Chemistry
- Earth & Space Science
- Environmental Education*
- English
- General Science
- Mathematics
- Physics
- Social Studies

*Environmental Education is a grades K-12 certification area.

The program requires that students have a B average (3.0 GPA) in content courses needed for teacher certification in addition to the grade of B or better in each EDUC course throughout their time in the program. These requirements must be satisfied in order for Drexel to recommend the student for teacher certification upon graduation and/or be considered to have completed the program.

A benchmark to assist students in meeting the GPA and B grade requirements is the formal review of each student's content and pedagogy coursework at the end of the sophomore year. Students who meet these requirements, as well as pass the *Pre-Professional Skills Test* (PPST Reading, PPST Writing, PPST Mathematics) of the *ETS Praxis Exams* according to Pennsylvania standards at that time, are officially accepted into Drexel's Teacher Preparation Program. Students who do not meet the requirements work with their academic advisor to develop a plan of action to work toward meeting the requirements, continue in the program to work toward the BS degree without being recommended for a teaching certificate, or explore another major.

Students participate in classroom observations and limited direct teaching experiences as a component of many of their pedagogy courses beginning in their freshman year.

In the senior year, students who are officially accepted into the Teacher Preparation Program and maintain the GPA and grade requirements, enroll and complete the 12-week, full-time, student-teaching experience (EDUC 410 WI) in their primary area of certification. Students must receive a grade of at least B in EDUC 410 (and EDUC 414 if applicable) and in all pedagogy (EDUC) coursework, as well as maintain an overall 3.0 GPA to be recommended for teacher certification.

Students who were not officially accepted into the Teacher Preparation Program and/or do not maintain the GPA and grade requirements but who are working towards the BS degree without being recommended for teacher certification take other courses as assigned by the Teacher Education Program Director and/or academic advisor to fulfill needed credits for the degree in lieu of student teaching.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study. For more information, contact the Program Coordinator for the School of Education at

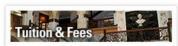
Additional information is available at the School of Education's web site.











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- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Biology Certification

Bachelor of Science: 181.0 quarter credits Certification is for grades 7 - 12

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes coursework in the biological sciences, including genetics, morphology and physiology, biochemistry, microbiology, and ecology. Students may also choose to pursue a second certification in chemistry and/or environmental education. A sample plan of study is available.

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
HIST 280	History of Science I	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0

Science requirements

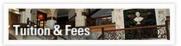
BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
BIO 201	Human Psychology I	4.0
BIO 214	Principles of Cell Biology	3.0
BIO 215 WI	Techniques of Cell Biology	2.5
BIO 217	Evolution	4.0
BIO 218	Principles of Molecular Biology	4.0
BIO 219 WI	Techniques of Molecular Biology	2.5
BIO 270	Developmental Biology	3.0











- Drexel Home
- About Drexel
- Accreditation
- Academic Policies

BIO 271	Developmental Biology Laboratory	2.0
BIO 306	Biochemistry Laboratory	2.0
BIO 404	Structure and Function of Biomolecules	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 241	Organic Chemistry I	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244	Organic Chemistry I Laboratory	3.0
CHEM 245	Organic Chemistry Laboratory II	3.0
ENVS 230	General Ecology	3.0
ENVS 284 WI	Physiological and Population Ecology	3.0
PHYS 152	Introductory Physics I	4.0
PHYS 153	Introductory Physics II	4.0

Pedagogy requirements		64.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organization Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Reading in the Content Areas (7-12)	3.0
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 322	Evaluation of Instruction	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Seminar	1.0

Student teaching experience

EDUC 410 WI Student Teaching (Biology) 9.0

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.

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Recommended Plan Of Study

BS Teacher Education, Biological Sciences 4 YR UG Co-op Concentration /Biological Sciences

Term 1		Credits
BIO 124	Evolution & Organismal Diversity	4.5
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
	Expository Writing and Reading	3.0
	Calculus I	4.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	16.5
Term 2		Credits
UNIV 101	The Drexel Experience	1.0
BIO 122	Cells and Genetics	4.5
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 113	Org Struct of Secondary School	3.0
ENGL 102	Persuasive Writing and Reading	3.0
MATH 122	Calculus II	4.0
	Term Credits	16.5
Term 3		Credits
BIO 126	Physiology and Ecology	4.5
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
	Term Credits	16.0
Term 4		Credits
BIO 201	Human Physiology I	4.0
BIO 219	Techniques in Molecular Biology	2.5
<u>CHEM 101</u>	•	3.5
EDUC 205		1.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
	Term Credits	15.5
Term 5		Credits
BIO 214	Principles of Cell Biology	3.0
BIO 215	Techniques in Cell Biology	2.5
BIO 218	Principles of Molecular Biology	4.0
CHEM 102	•	4.5
COOP 101	•	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Language Learners	3.0
<u> </u>		
	Term Credits	20.0

Term 6		Credits
BIO 270	Development Biology	3.0
BIO 271	Developmental Biology Laboratory	2.0
CHEM 241	Organic Chemistry I	4.0
EDUC 258	Reading in the Content Areas	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
MATH 123	Calculus III	4.0
	Term Credits	17.0
Term 7		Credits
CHEM 242	Organic Chemistry II	4.0
	Organic Chemistry Laboratory I	3.0
EDUC 322	Evaluation of Instruction	3.0
PHYS 152	Introductory Physics I	4.0
	Term Credits	14.0
Term 8		Credits
BIO 217	Evolution	4.0
	Organic Chemistry Laboratory II	3.0
	Computer Applications in Teaching	3.0
EDUC 315	· · · · · · · · · · · · · · · · · · ·	3.0
PHYS 153	Introductory Physics II	4.0
	Term Credits	17.0
Term 9		Credits
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 324	· · · · · · · · · · · · · · · · · · ·	3.0
PSY 101	General Psychology I	3.0
<u> </u>	, ,,	
	English (ENGL) course between 200-329 Term Credits	3.0
	Term Credits	13.
Term 10		Credits
BIO 306	Biochemistry Laboratory	2.0
BIO 404	Structure and Function of Biomolecules	4.0
EDUC 216	Diversity and Today's Teacher	3.0
ENVS 230	General Ecology	3.0
	Term Credits	12.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Term 12		Credits
ENVS 284	Physiological and Population Ecology	3.0
HIST 280	History of Science I	3.0
PHIL 251	Ethics	3.0
PSY 320	Educational Psychology	3.0
	Term Credits	12.0
	Total Credits (minimum)	183.0

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 Certification Bachelor of Science: 185.0 quarter credits

Certification is for grades 7 - 12

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes coursework in such areas as organic chemistry, physical chemistry, biochemistry, analytical chemistry, and inorganic chemistry. Students may also choose to pursue a second certification in biology. A sample plan of study is available.

General education requirements

HIST 280	History of Science I	3.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0

Science requirements

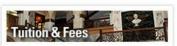
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
BIO 306	Biochemistry Laboratory	2.0
CHEC 352	Physical Chemistry and Applications	4.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
CHEM 110	Environmental Chemistry	2.0











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- Accreditation
- Academic Policies

CHEM 230	Quantitative Analysis	3.0
CHEM 231 WI	Quantitative Analysis Laboratory	2.0
CHEM 241	Organic Chemistry	4.0
CHEM 242	Organic Chemistry II	4.0
CHEM 243	Organic Chemistry III	3.0
CHEM 244	Organic Chemistry Laboratory I	3.0
CHEM 245	Organic Chemistry Laboratory II	3.0
CHEM 252	Physical Chemistry I	3.0
CHEM 357 WI	Physical Chemistry I Laboratory	2.5
CHEM 420	Molecular Symmetry and Group Theory Chemistry	3.0
CHEM 421	Inorganic Chemistry I	3.0
CHEM 430	Analytical Chemistry I	3.0
ENVS 401	Chemistry of the Environment	3.0
PHEV 145	Weather 1: Climate and Global Change	4.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 201	Fundamentals of Physics III	4.0

Pedagogy requirements		64.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organization Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Reading in the Content Areas (7-12)	3.0
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 322	Evaluation of Instruction	3.0

EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Seminar	1.0

Student teaching experience

EDUC 410 WI	Student Teaching (Chemistry)	9.0

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.

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Recommended Plan Of Study

BS Teacher Education, Chemistry
4 YR UG Co-op Concentration /Chemistry

Term 1		Credits
CHEM 101	General Chemistry I	3.5
EDUC 101	Foundations in Education I: A Historical and Philosophical	2.0
	Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
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	15.5
Term 2		Credits
	General Chemistry II	4.5
	Freshman Pedagogy Seminar	1.0
	Organizational Structure of Secondary School	3.0
	Persuasive Writing and Reading	3.0
	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
OIVIV 101	Term Credits	16.5
	Term Oreans	10.0
Term 3		Credits
	General Chemistry III	5.0
<u>CHEM 110</u>	Environmental Chemistry	2.0
	Freshman Pedagogy Seminar	1.0
	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
	Term Credits	18.5
T 4		One ditte
Term 4	Calla Canatica 9 Dissairlant	Credits
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
	Quantitative Analysis	3.0
	Quantitative Analysis Laboratory	2.0
	Organic Chemistry I	4.0
EDUC 205		1.0
MATH 123	Calculus III	4.0
	Term Credits	18.0
Term 5		Credits
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology & Evolution Lab	1.0
CHEM 242	Organic Chemistry II	4.0
CHEM 244		3.0
COOP 101	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Lang. Learners	3.0

	Term Credits	17.0
Term 6		Cradite
	Organia Chamiatry III	Credits
	Organic Chemistry III Organic Chem Lab II	3.0 3.0
EDUC 244	<u> </u>	4.5
	<u> </u>	
EDUC 258		3.0
EDUC 305 PHYS 101	0 07	1.0
PHYS 101	Fundamentals of Physics I	4.0
	Term Credits	18.5
Term 7		Credits
CHEM 420	Molecular Symmetry and Group Theory-Chemistry	3.0
CHEM 421	Inorganic Chemistry I	3.0
	Evaluation of Instruction	3.0
PHYS 102	Fundamentals of Physics II	4.0
	Term Credits	13.0
Term 8		Credits
EDUC 310	F FF	3.0
EDUC 315	<u>, </u>	3.0
	Weather I: Climate and Global Change	4.0
PHYS 201	Fundamentals of Physics III	4.0
	Term Credits	14.0
Term 9		Credits
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 324	· · · · · · · · · · · · · · · · · · ·	3.0
PSY 101	General Psychology I	3.0
	English (ENGL) course between 200-329	3.0
	Term Credits	13.9
	Tom Greats	70.0
Term 10		Credits
CHEC 352	Physical Chemistry and Applications II	4.0
CHEM 252	Physical Chemistry I	3.0
CHEM 357	Physical Chemistry Lab I	2.5
EDUC 216	Diversity and Today's Teacher	3.0
ENVS 401	Chemistry of the Environment	3.0
	Term Credits	15.
	Term Credits	10.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Term 12		Credits
CHEM 430	Analytical Chemistry I	
	Analytical Chemistry I History of Science I	3.0
HIST 280	· · · · · · · · · · · · · · · · · · ·	3.0
PHIL 251	Ethics	3.0
PSY 320	Educational Psychology Term Credits	3.0 12.0
	Term Ordano	12.0
	Total Credits (minimum)	185.0

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

185.0

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

Earth and Space Science Certification Bachelor of Science: 182.0 quarter credits

(Certification is for grades 7 - 12)

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes interdisciplinary study, involving coursework in biology, chemistry, geology, physics and atmospheric science. Students may also choose to pursue a second certification in chemistry or physics. A sample plan of study is available.

General education requirements		115.5 Credits
ECON 201	Principles of Microeconomics	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
HIST 280	History of Science I	3.0
HIST 285	Technology in Historical Perspective	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0

Science requirements

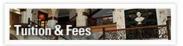
BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemisty II	4.5
ENVS 230	General Ecology	3.0
ENVS 260	Environmental Science and Society	3.0
ENVS 270	History of Life on Earth	4.0











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- Accreditation
- Academic Policies

43

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 and Ecosystem Ecology Laboratory	2.0
ENVS 330	Aquatic Ecology	3.0
ENVS 390	Marine Ecology	3.0
ENVS 441 WI	Issues in Global Change I	2.0
PHEV 145	Weather 1: Climate and Global Change	4.0
PHEV 146	Weather 2: Analysis and Forecasting	4.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 131 WI	Survey of the Universe	3.0

Pedagogy requirements		64.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organizational Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	4.5
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Reading in the Content Areas (7-12)	4.5
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 322	Evaluation of Instruction	4.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Seminar	1.0

Student teaching experience

EDUC 410 WI	Student Teaching	9.0
LDOO TIO WI	Oldderit Teaching	5.0

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.



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Recommended Plan Of Study

BS Teacher Education, Earth and Space
4 YR UG Co-op Concentration /Earth & Space Science

Term 1		Credits
BIO 122	Cells and Genetics	4.5
EDUC 101	Foundations in Education I: A Historical and Philosophical	3.0
	Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
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	16.5
Term 2		Credits
BIO 124	Evolution & Organismal Diversity	4.5
	Freshman Pedagogy Seminar	1.0
	Org Struct of Secondary School	3.0
	Persuasive Writing and Reading	3.0
	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	16.5
Term 3		Credits
BIO 126	Physiology and Ecology	4.5
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
	Term Credits	16.0
Term 4		Credits
	Sophomore Pedagogy Seminar	1.0
EDUC 244		4.5
ENVS 230	General Ecology	3.0
	Calculus III	4.0
PHYS 101		4.0
	Term Credits	16.5
	Tom Oreals	70.0
Term 5		Credits
COOP 101	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Lang. Learners	3.0
ENVS 270	History of Life on Earth	4.0
PHYS 102	Fundamentals of Physics II	4.0
PSY 101	General Psychology I	3.0
	Term Credits	17.0
Term 6		Credits
CHEM 101		

	General Chemistry I	3.5
EDUC 258	Reading in the Content Areas	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
ENVS 284	Physiological and Population Ecology	3.0
ENVS 286	Community and Ecosystem Ecology	3.0
	Term Credits	13.
Term 7		Credits
CHEM 102	General Chemistry II	4.5
EDUC 322	Evaluation of Instruction	3.0
ENVS 272	Physical Geology	4.0
ENVS 285	Population Ecology Lab	2.0
ENVS 441	Issues in Global Change I: Seminar	2.0
	Term Credits	15.
Term 8		Credits
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
HIST 285	Technology in Historical Perspective	3.0
PHEV 145	Weather I: Climate and Global Change	4.0
	Term Credits	13.0
Term 9		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 324	Current Research in Curriculum & Instruction	3.0
ENVS 287	Community Ecology Lab	2.0
	Term Credits	13.
Term 10		Credits
EDUC 216	Diversity and Today's Teacher	3.0
ENVS 260	Environmental Science and Society I	3.0
ENVS 390	Marine Ecology	3.0
PHEV 146	Weather II: Analysis and Forecasting	4.0
PSY 320	Educational Psychology	3.0
	Term Credits	16.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Term 12		Credits
ENVS 330	Aquatic Ecology	3.0
HIST 280	History of Science I	3.0
PHIL 251	Ethics	3.0
<u>PHYS 131</u>	Survey of the Universe	3.0
	English (ENGL) course between 200-329	3.0
	Term Credits	15.0
	Total Credits (minimum)	182 (

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

English Certification

Bachelor of Science: 180.5 quarter credits Certification is for grades 7 - 12)

Degree requirements

Incoming students, 2011/2012

Students may also choose to pursue a second certification in any of the other certification areas. A sample plan of study is available

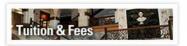
General education requirements		72.0 Credits
ARTH 101	History of Art I: Ancient to Medieval	3.0
COM 230	Techniques of Speaking	3.0
ECON 201	Principles of Microeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENVS 260	Environmental Science and Society	3.0
INFO 101	Introduction to Information Technology	3.0
LING 101	Introduction to Linguistics	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis I	3.0
MATH 183	Mathematical Analysis I	3.0
MUSC 130	Introduction to Music	3.0
NFS 101	Introduction to Nutrition & Food	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
SOC 335	Sociology of Education I	3.0
PHYS 181	Astronomy	4.0
WRIT 225 WI	Creative Writing	3.0
WRIT 301 WI	Writing Poetry	3.0
UNIV 101	The Drexel Experience	2.0
	American History (HIST) course between 200- 203	3.0
	Elective	3.0











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- Accreditation
- Academic Policies

One of the following science sequences:

CHEM 111 CHEM 112	General Chemistry I General Chemistry II	4.0 4.0
or		
PHYS 103	General Physics I	4.0
PHYS 104	General Physics II	4.0

Electives/Minor in English		33.0 Credits
ENGL 200 WI	Classical to Medieval Literature	3.0
ENGL 201	Renaissance to the Enlightenment	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 211 WI	British Literature I	3.0
ENGL 212	British Literature II	3.0
ENGL 304	Young Adult Fiction	3.0
ENGL 325	Topics in World Literature	3.0
	Literature (ENGL) elective*	3.0
	Diversity in Literature (ENGL) elective**	3.0

^{*}ENGL 335 Mythology is the recommended elective.

^{**}ENGL 355 Women in Literature is the recommended elective.

Pedagogy requirements		71.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organization Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 258	Reading in the Content Areas (7-12)	3.0
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 246	Literacy Development	4.5
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 322	Evaluation of Instruction	4.0

EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0

Student teaching experience

EDUC 410 WI Student Teaching	9.0
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Writing-Intensive Course Requirements

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

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Recommended Plan Of Study

BS Teacher Education, English 4 YR UG Co-op Concentration /English

Term 1		Credits
EDUC 101	·	3.0
	Perspective	
EDUC 105	3 07	1.0
ENGL 101	Expository Writing and Reading	3.0
<u>MATH 181</u>		3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
PHYS 103 or	General Physics I	4.0
CHEM 111	General Chemistry I	4.0
	Term Credits	15.0
Term 2		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 113		3.0
ENGL 102	<u> </u>	3.0
MATH 182		3.0
UNIV 101	The Drexel Experience	1.0
PHYS 104	<u> </u>	4.0
or	,,,,,	
CHEM 112	General Chemistry II	4.0
	Term Credits	15.0
Term 3		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
MATH 183	Mathematical Analysis III	3.0
PSY 101	General Psychology I	3.0
	Term Credits	17.5
Term 4		Credits
COM 230	Techniques of Speaking	3.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
<u>INFO 101</u>	Introduction to Information Technology	3.0
<u>LING 101</u>	Introduction to Linguistics	3.0
HIST 201	US History to 1815	3.0
or		
HIST 203	US History since 1900	3.0
Or	HC History 494E 4000	2.0
HIST 202	US History, 1815-1900	3.0
	Term Credits	17.5
Term 5		Credits

<u>COOP 101</u>	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	0 0	3.0
ENGL 201	9	3.0
NFS 101	Introduction to Nutrition & Food	3.0
WRIT 301	Writing Poetry	3.0
	Term Credits	15.0
Term 6	B # 1 d B 4 d 4	Credits
EDUC 258		3.0
EDUC 305	Junior Pedagogy Seminar Classical to Medieval Literature	1.0
ENGL 200		3.0
ENGL 204 WRIT 225	Post-Colonial Lit II Creative Writing	3.0
WKII 223		
	Term Credits	13.0
Term 7		Credits
EDUC 322	Evaluation of Instruction	3.0
ENGL 304	Young Adult Fiction	3.0
	Introduction to Music	3.0
PHYS 181	Astronomy	3.0
11110 101	Term Credits	12.0
	Term Oreans	12.0
Term 8		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 310	•	3.0
	Current Research in Curriculum & Instruction	3.0
	Expressive Arts for PK-4	3.0
ENGL 335	Mythology	3.0
	Literature (ENGL) elective	3.0
	Term Credits	19.0
Term 9		Credits
EDUC 246	Literacy and Content Skill Development	4.
EDUC 325	Multimedia in Instructional Design	3.0
ENGL 205	American Literature I	3.0
ENGL 212	British Literature II	3.0
	Term Credits	13.
Term 10		Credits
ARTH 101	History of Art I: Ancient to Medieval	3.0
EDUC 216	Diversity and Today's Teacher	3.0
ENGL 211	British Literature I	3.0
ENGL 355	Women and Literature	3.0
PSY 320	Educational Psychology	3.0
	Term Credits	15.0
Taum 44		Cradit
Term 11 EDUC 405	Canias Dadamans Caminas	Credits
EDUC 410	Senior Pedagogy Seminar	1.0
ENGL 325	Student Teaching Tenies in World Literature	9.0
ENGL 323	Topics in World Literature Term Credits	3.0
	Term Creats	13.0
Torm 42		Cuadit
Term 12 ENGL 206	American Literature II	Credits
ENVS 260	Environmental Science and Society I	3.0 3.0
SOC 335	Sociology of Education I	3.0
<u>500 333</u>		
	Diversity in Literature (ENGL) elective	3.0

	Free elective Term Credits				3.0 15.0		
	Total Credits (minimum)				180.5		
Last Up	dated: 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

Environmental Education Certification

Bachelor of Science: 182.0 quarter credits (Certification is for grades K - 12)

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes coursework in such areas of environmental issues as biology and chemistry. Students may also choose to pursue a second certification in biology. A sample plan of study is available.

General education requirements

ECON 201	Principles of Microeconomics	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
HIST 280	History of Science I	3.0
HIST 285	Technology in Historical Perspective	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0

Science requirements

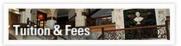
BIO 122	Cells and Genetics	4.5
BIO 124	Evolution and Organismal Diversity	4.5
BIO 126	Physiology and Ecology	4.5
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemisty II	4.5
ENVS 230	General Ecology	3.0
ENVS 260	Environmental Science and Society	3.0
ENVS 270	History of Life on Earth	4.0











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- Accreditation
- Academic Policies

54

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 and Ecosystem Ecology Laboratory	2.0
ENVS 330	Aquatic Ecology	3.0
ENVS 390	Marine Ecology	3.0
ENVS 441 WI	Issues in Global Change I	2.0
PHEV 145	Weather 1: Climate and Global Change	4.0
PHEV 146	Weather 2: Analysis and Forecasting	4.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 131 WI	Survey of the Universe	3.0

Pedagogy require	71.5 Credits	
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organization Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Reading in the Content Areas (7-12)	3.0
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 322	Evaluation of Instruction	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Seminar	1.0

Student teaching experience

EDUC 410 WI Student Teaching

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.



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Recommended Plan Of Study

BS Teacher Education, Environmental Education 4 YR UG Co-op Concentration /Environmental Education

Term 1		Credits
BIO 122	Cells and Genetics	4.5
EDUC 101	Foundations in Education I: A Historical and Philosophical	3.0
	Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
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	16.5
Term 2		Credits
BIO 124	Evolution & Organismal Diversity	4.5
	Freshman Pedagogy Seminar	1.0
	Org Struct of Secondary School	3.0
	Persuasive Writing and Reading	3.0
	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	16.5
Term 3		Credits
BIO 126	Physiology and Ecology	4.5
	Freshman Pedagogy Seminar	1.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
	Term Credits	16.0
Term 4		Credits
EDUC 205	Sophomore Pedagogy Seminar	1.0
	Inclusionary Practices for Exceptional Students	4.5
ENVS 230	·	3.0
	Calculus III	4.0
	Fundamentals of Physics I	4.0
11110 101	Term Credits	16.5
		7010
Term 5		Credits
COOP 101	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Lang. Learners	3.0
ENVS 270	History of Life on Earth	4.0
PHYS 102	Fundamentals of Physics II	4.0
PSY 101	General Psychology I	3.0
	Term Credits	17.0
Term 6		Credits
CHEM 101		

	General Chemistry I	3.5
EDUC 258	Reading in the Content Areas	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
ENVS 284	Physiological and Population Ecology	3.0
ENVS 286	Community and Ecosystem Ecology	3.0
	Term Credits	13.
Term 7		Credits
CHEM 102	General Chemistry II	4.5
EDUC 322	Evaluation of Instruction	3.0
ENVS 272	Physical Geology	4.0
ENVS 285	Population Ecology Lab	2.0
ENVS 441	Issues in Global Change I: Seminar	2.0
	Term Credits	15.
Term 8		Credits
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
HIST 285	Technology in Historical Perspective	3.0
PHEV 145	Weather I: Climate and Global Change	4.0
	Term Credits	13.0
Term 9		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 246		4.5
EDUC 324	· · · · · · · · · · · · · · · · · · ·	3.0
ENVS 287	Community Ecology Lab	2.0
	Term Credits	13.
Term 10		Credits
EDUC 216	Diversity and Today's Teacher	3.0
ENVS 260	Environmental Science and Society I	3.0
ENVS 390	Marine Ecology	3.0
PHEV 146	Weather II: Analysis and Forecasting	4.0
PSY 320	Educational Psychology	3.0
	Term Credits	16.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Term 12		Credits
ENVS 330	Aquatic Ecology	3.0
HIST 280	History of Science I	3.0
PHIL 251	Ethics	3.0
PHYS 131	Survey of the Universe	3.0
	English (ENGL) course between 200-329	3.0
	Term Credits	15.0
	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

General Science Certification

Bachelor of Science: 181.5 quarter credits (Certification is for grades K - 12)

Degree Requirements

Incoming students, 2011/2012

The certification area is a well-rounded program incorporating biology, chemistry, mathematics, and physics. Students may also choose to pursue a second certification in any of the other certification areas. A sample plan of study is available.

General education requirements

ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
MATH 121	Calculus I	4.0
MATH 122	Calculus II	4.0
MATH 123	Calculus III	4.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
HIST 280	History of Science I	3.0
	English elective course between 200-329	3.0
Science, Tech	nology, Human Affairs electives *	6.0
Electives	1	8.0

^{*}Any History (HIST) course from 281-294.

Science requirements

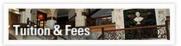
BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Lab	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
BIO 110	Biological Diversity, Ecology and Evolution Lab	1.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
CHEM 103	General Chemistry III	5.0
ENVS 270	History of Life on Earth	4.0











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- Accreditation
- Academic Policies

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 390	Marine Ecology	3.0
PHEV 145	Weather 1: Climate and Global Change	4.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0
PHYS 131 WI	Survey of the Universe	3.0

Pedagogy requirements		64.5 Credits	
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0	
EDUC 105	Freshman Seminar	3.0	
EDUC 113	The Organization Structure of Secondary Schools	3.0	
EDUC 123	Adolescent Development	3.0	
EDUC 142	Special Education Foundations	4.5	
EDUC 205	Sophomore Seminar	1.0	
EDUC 216	Diversity and Today's Teacher	3.0	
EDUC 223	Teaching the Middle School Child	3.0	
EDUC 244	Inclusionary Practices for Exceptional Students	4.5	
EDUC 246	Literacy Development	4.5	
EDUC 258	Reading in the Content Areas (7-12)	3.0	
EDUC 265	Foundations for Instructing ELLs	3.0	
EDUC 305	Junior Seminar	1.0	
EDUC 310	Computer Applications in Teaching	3.0	
EDUC 315	Secondary Science Teaching Methods	3.0	
EDUC 322	Evaluation of Instruction	3.0	
EDUC 324	Current Research in Curriculum and Instruction	3.0	
EDUC 325	Multimedia in Instructional Design	3.0	
EDUC 405	Senior Seminar	1.0	

Student teaching experience

EDUC 410 WI	Student Teaching (General Sciences)	9.0

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.

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Recommended Plan Of Study

BS Teacher Education, General Science 4 YR UG Co-op Concentration /General Science

Term 1		Credits
CHEM 101	General Chemistry I	3.5
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Pedagogy Seminar	1.0
	Expository Writing and Reading	3.0
	Calculus I	4.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	15.5
Term 2		Credits
CHEM 102	General Chemistry II	4.5
EDUC 105	Freshman Pedagogy Seminar	1.0
	Org Struct of Secondary School	3.0
ENGL 102	Persuasive Writing and Reading	3.0
	Calculus II	4.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	16.5
Term 3		Credits
CHEM 103	General Chemistry III	5.0
	Freshman Pedagogy Seminar	1.0
	Adolescent Development	3.0
EDUC 142	Special Education Foundations: Referral and Assessment	4.5
ENGL 103	Analytical Writing and Reading	3.0
	Term Credits	16.5
Term 4		Credits
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
MATH 123	Calculus III	4.0
	Term Credits	13.5
Term 5		Credits
BIO 109	Biological Diversity, Ecology & Evolution	3.0
BIO 110	Biological Diversity, Ecology & Evolution Lab	1.0
COOP 101	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Lang. Learners	3.0
ENVS 270	History of Life on Earth	4.0
PHYS 101	Fundamentals of Physics I	4.0
	Term Credits	18.0

Term 6		Credits
EDUC 258	Reading in the Content Areas	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
ENVS 284	Physiological and Population Ecology	3.0
PHYS 102	Fundamentals of Physics II	4.0
PSY 101	General Psychology I	3.0
	Term Credits	14.0
Term 7		Credits
EDUC 322	Evaluation of Instruction	3.0
ENVS 272	Physical Geology	4.0
ENVS 285	Population Ecology Lab	2.0
PHYS 131	Survey of the Universe	3.0
	Free elective	3.0
	Term Credits	15.0
	Tomi Ground	1010
Term 8		Credits
EDUC 310		3.0
	Secondary Science Teaching Methods	3.0
ENVS 286	Community and Ecosystem Ecology	3.0
PHEV 145	Weather I: Climate and Global Change	4.0
	Free elective	3.0
	Term Credits	16.0
Term 9		Credits
EDUC 246	Literacy and Content Skill Development	4.5
EDUC 324	Current Research in Curriculum & Instruction	3.0
HIST 280	History of Science I	3.0
	Free elective	3.0
	Term Credits	13.5
Term 10		Credits
EDUC 216	Diversity and Today's Teacher	3.0
ENVS 390	Marine Ecology	3.0
PSY 320	Educational Psychology	3.0
	Science, Technology and Human Affairs elective (See	3.0
	degrees requirements list)	
	Free elective	3.0
	Term Credits	15.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Taura 40		One dite
Term 12	Ethio	Credits
PHIL 251	Ethics	3.0
	English (ENGL) course between 200-329	3.0
	Science, Technology and Human Affairs elective (See degrees requirements list)	3.0
	Free electives	6.0
	Term Credits	15.0
	Total Credits (minimum)	181.5
	rotar oreatto (minimum)	101.3

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 Certification

Bachelor of Science: 180.5 quarter credits (Certification is for grades 7 - 12)

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes coursework in such areas of mathematics as calculus, linear algebra, differential equations, probability and statistics, techniques of mathematical proof, and discrete mathematics. Students may also choose to pursue a second certification in physics or one of the other sciences. A sample plan of study is available.

General education requirements

ECON 201	Principles of Economics	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
HIST 280	History of Science I	3.0
INFO 108	Foundations of Software	3.0
PHIL 251	Ethics	3.0
PSY 101	General Psychology I	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0
	Electives	9.0

Mathematics requirements

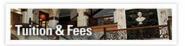
EDUC 428 Cultural ar Math	nd Historical Significance of	3.0
MATH 121 Calculus I		4.0
MATH 122 Calculus II	I	4.0
MATH 123 Calculus II	II	4.0
MATH 200 Multivariat	e Calculus	4.0
MATH 201 Linear Alg	ebra	4.0
MATH 205 Survey of	Geometry	3.0
MATH 210 Differentia	I Equations	4.0
MATH 220 Introduction	on to Mathematical Reasoning	3.0











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- Accreditation
- Academic Policies

MATH 221	Discrete Mathematics	3.0
MATH 311	Probability and Statistics I	4.0
MATH 312	Probability and Statistics II	4.0
MATH 331	Abstract Algebra I	4.0

Science requirements

BIO 107	Cells, Genetics and Physiology	3.0
BIO 108	Cells, Genetics and Physiology Laboratory	1.0
BIO 109	Biological Diversity, Ecology and Evolution	3.0
CHEM 101	General Chemistry I	3.5
CHEM 102	General Chemistry II	4.5
ENVS 260	Environmental Science and Society	3.0
PHYS 101	Fundamentals of Physics I	4.0
PHYS 102	Fundamentals of Physics II	4.0

Pedagogy requirements 71.5 Credits Foundations in Education I: A Historical **EDUC 101** 3.0 and Philosophical Perspective **EDUC 105** 3.0 Freshman Seminar The Organization Structure of Secondary **EDUC 113** 3.0 Schools **EDUC 123** 3.0 Adolescent Development EDUC 142 Special Education Foundations 4.5 **EDUC 205** Sophomore Seminar 1.0 **EDUC 216** Diversity and Today's Teacher 3.0 **EDUC 223** Teaching the Middle School Child 3.0 Inclusionary Practices for Exceptional **EDUC 244** 4.5 Students **EDUC 246** Literacy Development 4.5 **EDUC 258** Reading in the Content Areas (7-12) 3.0 **EDUC 265** Foundations for Instructing ELLs 3.0 **EDUC 305** Junior Seminar 1.0 **EDUC 310** Computer Applications in Teaching 3.0 **EDUC 319** Secondary Math Teaching Methods 3.0 **EDUC 322** 4.0 Evaluation of Instruction Current Research in Curriculum and EDUC 324 3.0 Instruction **EDUC 325** Multimedia in Instructional Design 3.0

Student teaching experience

EDUC 410 WI	Student Teaching (Mathematics)	9.0

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.



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Recommended Plan Of Study

BS Teacher Education, Mathematics 4 YR UG Co-op Concentration /Mathematics

Term 1		Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical	3.0
	Perspective	
	Freshman Pedagogy Seminar	1.0
ENGL 101	Expository Writing and Reading	3.0
	Calculus I	4.0
PSY 101	General Psychology I	3.0
<u>UNIV 101</u>	The Drexel Experience	1.0
	Term Credits	15.0
Term 2		Credits
EDUC 105	Freshman Pedagogy Seminar	1.0
EDUC 113	Org Struct of Secondary School	3.0
ENGL 102	Persuasive Writing and Reading	3.0
INFO 108	Foundations of Software	3.0
MATH 122	Calculus II	4.0
UNIV 101	The Drexel Experience	1.0
	Term Credits	15.0
Term 3		Credits
	Freshman Pedagogy Seminar	1.0
	Adolescent Development	3.0
	Special Education Foundations: Referral and Assessment	4.5
	Analytical Writing and Reading	3.0
	Calculus III	4.0
	Term Credits	15.5
Term 4		Credits
BIO 107	Cells, Genetics & Physiology	3.0
BIO 108	Cells, Genetics & Physiology Lab	1.0
EDUC 205	Sophomore Pedagogy Seminar	1.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
MATH 200	Multivariate Calculus	4.0
MATTI 200	Term Credits	13.5
		0 "
Term 5	BUT THE WAR IN THE TAIL	Credits
BIO 109	Biological Diversity, Ecology & Evolution	3.0
CHEM 101	General Chemistry I	3.5
COOP 101	Career Management/Professional Development	0.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 265	Instructing English Lang. Learners	3.0
MATH 221	Discrete Mathematics	3.0
	Term Credits	15.5
Term 6		Credits
EDUC 258		

	Reading in the Content Areas	3.0
EDUC 305	Junior Pedagogy Seminar	1.0
MATH 210	Differential Equations	4.0
MATH 311	Probability and Statistics I	4.0
PHYS 101	Fundamentals of Physics I	4.0
	Term Credits	16.0
Term 7		Credits
EDUC 322	Evaluation of Instruction	3.0
EDUC 428	Cultural and Historical Significance of Mathematics	3.0
MATH 220	Introduction to Mathematical Reasoning	3.0
MATH 312	Probability and Statistics II	4.0
PHYS 102	Fundamentals of Physics II	4.0
	Term Credits	17.0
Term 8		Credits
CHEM 102	General Chemistry II	4.
EDUC 310	Computer Applications in Teaching	3.0
EDUC 319	Teaching Secondary Mathematics	3.0
HIST 280	History of Science I	3.0
	Free elective	3.0
	Term Credits	16.
Term 9		Credits
ECON 201	Principles of Microeconomics	4.0
EDUC 246	Literacy and Content Skill Development	4.5
MATH 201	Linear Algebra	4.0
MATH 205	Survey of Geometry	3.0
	Term Credits	15.
Term 10		Credits
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 324	Current Research in Curriculum & Instruction	3.0
MATH 331	Abstract Algebra I	4.0
PSY 320	Educational Psychology	3.0
	Free elective	3.0
	Term Credits	16.0
Term 11		Credits
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Pedagogy Seminar	1.0
EDUC 410	Student Teaching	9.0
	Term Credits	13.0
Term 12		Credits
ENVS 260	Environmental Science and Society I	3.0
PHIL 251	Ethics	3.0
	English (ENGL) course between 200-329	3.0
	Free elective	3.0
	Term Credits	12.0
	Total Credits (minimum)	180 !

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

Physics Certification

Bachelor of Science: 180.5 quarter credits (Certification is for grades 7 - 12)

Degree Requirements

Incoming students, 2011/2012

The certification area emphasizes coursework in physics and atmospheric science, including such topics as classical mechanics, electromagnetic fields, quantum mechanics, and physics of high fidelity, and survey of the universe. Students may also choose to pursue a second certification in mathematics. A sample plan of study is available.

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
HIST 280	History of Science 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
PHIL 251	Ethics	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
UNIV 101	The Drexel Experience	2.0
	English elective course between 200-329	3.0
	Free elective	2.0

Science requirements

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











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ENVS 260	Environmental Science and Society	3.0
PHEV 141 WI	Atmospheric Science I: Climate and Global Change	3.0
PHYS 113	Contemporary Physics I	5.0
PHYS 114	Contemporary Physics II	5.0
PHYS 115	Contemporary Physics III	5.0
PHYS 131 WI	Survey of the Universe	3.0
PHYS 201	Fundamentals of Physics III	4.0
PHYS 217	Thermodynamics	4.0
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

Pedagogy requirements		64.5 Credits
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 113	The Organization Structure of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Reading in the Content Areas (7-12)	3.0
EDUC 265	Foundations for Instructing ELLs	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 322	Evaluation of Instruction	3.0
EDUC 324	Current Research in Curriculum and Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 405	Senior Seminar	1.0

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.



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COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Social Studies Certification

Bachelor of Science: 185.0 quarter credits (Certification is for grades 7 - 12)

Degree Requirements

Incoming students, 2011/2012

General education and Concentration Content requirements

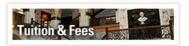
· · · · · · · · ·		
ANTH 101	Cultural Diversity: Introduction to Cultural Anthropology	3.0
ANTH 110	The Human Past: An Introduction to Physical Anthropology and Prehistoric Archaeology	3.0
ECON 201	Principles of Microeconomics	4.0
ECON 202	Principles of Macroeconomics	4.0
ENGL 101	Expository Writing and Reading	3.0
ENGL 102	Persuasive Writing and Reading	3.0
ENGL 103	Analytical Writing and Reading	3.0
ENGL 205	American Literature I	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
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 212	Themes in African-American History	3.0
HIST 216	Freedom in America	3.0
HIST 222	History of Work & Workers in America	3.0
HIST 224	Women in American History	3.0
HIST 276	The History of Philadelphia	3.0
HIST 285	Technology in Historical Perspective	3.0
MATH 181	Mathematical Analysis I	3.0
MATH 182	Mathematical Analysis I	3.0
MATH 183	Mathematical Analysis I	3.0
PSCI 110	American Government I	4.0











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- Accreditation
- Academic Policies

PSCI 140	Introduction to Comparative Political Analysis	4.0
PSCI 150	International Politics	4.0
PSCI 220	Constitutional Law I: Separation of Powers	3.0
PSCI 363	Constitutional Law II	3.0
PSCI 364	Constitutional Law III	3.0
PSCI 375	Politics of Immigration	3.0
PSY 101	General Psychology	3.0
PSY 320 WI	Educational Psychology	3.0
SOC 101	Introduction to Sociology	3.0
SOC 210	Race and Ethnic Relations	3.0
SOC 335	Sociology of Education I	3.0
UNIV 101	The Drexel Experience	2.0

Pedagogy requirements		70.0 Credits
EDGE 210	Geography Education	3.0
EDGE 211	Geography Education: Teacher Lab	1.5
EDUC 101	Foundations in Education I: A Historical and Philosophical Perspective	3.0
EDUC 105	Freshman Seminar	3.0
EDUC 112	Integrative Instruction: World Geography	3.0
EDUC 113	The Organization of Secondary Schools	3.0
EDUC 123	Adolescent Development	3.0
EDUC 142	Special Education Foundations	4.5
EDUC 205	Sophomore Seminar	1.0
EDUC 216	Diversity and Today's Teacher	3.0
EDUC 223	Teaching the Middle School Child	3.0
EDUC 244	Inclusionary Practices for Exceptional Students	4.5
EDUC 246	Literacy Development	4.5
EDUC 258	Content Area Reading (7-12)	3.0
EDUC 305	Junior Seminar	1.0
EDUC 310	Computer Applications in Teaching	3.0
EDUC 314	Elementary Science Teaching Methods	3.0
EDUC 315	Secondary Science Teaching Methods	3.0
EDUC 320 WI	Professional Studies in Instruction	6.0
EDUC 322	Evaluation of Instruction	4.0
-		

Current Research in Curriculum and

EDUC 324	Instruction	3.0
EDUC 325	Multimedia in Instructional Design	3.0
EDUC 356	Secondary Social Studies Teaching Methods	3.0
EDUC 405	Senior Pedagogy Seminar	1.0

Free elective

Elective	3.0

Student teaching experience

EDUC 410	Student Teaching	9.0

Writing-Intensive Course Requirements

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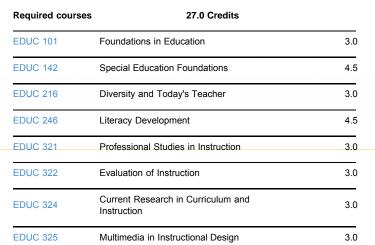
COLLEGES & SCHOOLS MAJORS MINORS GRADUATE PROGRAMS CERTIFICATE PROGRAMS ARCHIVE

Minor in Education

27.0 quarter credits

The minor in Education provides a structured academic opportunity for students who wish to add a fundamental understanding of the field of education as well as practical knowledge in the art and science of teaching and learning to their undergraduate experience.

Designed for students with a strong interest in education and training, the minor will not necessarily lead to the student being recommended for a state teaching certificate. However, should a student decide to also pursue a teaching certificate as a component of his or her major—or in post-baccalaureate work— the courses required for the minor are applicable to Pennsylvania State certification.

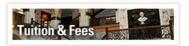












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