



Secondary Education Degree Course Requirements
BIOLOGY

Liberal Arts & Sciences Core

Course Name/Number	Credits
ACS 1000 Augustinian Culture Seminar	3
ACS 1001 Augustinian Culture Seminar	3
Intermediate Language I	3
Intermediate Language II	3
THL 1000 Faith, Reason and Culture	3
THL 2000+ Advanced Theology	3
PHI 1000 Knowledge, Reality and Self	3
ETH 2050 The Good Life: Ethics and Contemporary Moral Problems	3
Fine Arts	3
Core History	3
ENG 1975 Core Literature and Writing Seminar	3
MAT 1312 Biocalculus or MAT 1500(4cr)	4

Individuals seeking Instructional I certification in Pennsylvania must pass the state required examinations. Information concerning the examinations may be obtained in the office of the Department of Education and Counseling

Professional Education Courses

Course Name/Number	Credits
EDU 2201 or EDU 2202 Social Foundations of Education	3
EDU 2300 Research Seminar	3
EDU 3000 Professional Development in Education	1
EDU 3251 Psych of Teaching and Learning	3
EDU 3263 Diversity & Inclusion	3
EDU 3264 Intro to Disability Studies	3
EDU 4245 Literacy & English Language Learners	3
EDU 4284 Methods of Teaching Science	3
EDU 4290 Philosophy of Education	3
EDU 4291 Student Teaching	9
EDU 4292 Seminar	3
ENG Advanced Elective*	3
MAT 1313 Statistics for Life Sciences or MAT 1505(4cr)*	3

**All Education Majors must take two Math and two English courses before they may officially enter the Secondary Education Major.*

**Turn Over for Biology
Concentration Requirements**

Required Courses for Certification in Secondary Biology Education

Course Name/Number	Credits
BIO 2105 General Biology I & Lab	4
BIO 2106 General Biology II & Lab	4
BIO 3055 Animal Physiology	4
BIO 3351 Genetics	4
BIO 3255 Introductory Ecology	4
CHM 1151 & 1103 General Chem. & Lab	5
CHM 1152 & 1104 General Chem. & Lab	5
CHM 2211 & 2201 Organic Chem. I & Lab	4
CHM 2212 & 2202 Organic Chem. II & Lab	4
GEV 3580 Natural Res. & Conservation	3
PHY 1100 General Physics	3

One of the following:

4 Credits in *Cell & Molecular Biology*:

BIO 3595 General Microbiology	4
BIO 4205 Cell Biology	4
BIO 4505 Molecular Biology	4
CHM 4611 & 4601 Survey of Biochemistry & Lab	4

One of the following:

4 credits in *Organismal Biology*:

BIO 3155 Comparative Anatomy	4
BIO 3405 Higher Vertebrates	4
BIO 3525 Entomology	4
BIO 4251 & 4252 Endocrine Physiology/Pharmacology & Lab	4

One of the Following:

4 Credits in *Ecology & Population Biology*:

BIO 3485 Marine Biology	4
BIO 4305 Evolution	4
BIO 4451 & 4452 Field Eco. & Evolution	4
MSE 2104 & MSE 2152 AST: Earth-Our Habitable World & Lab	4

*With a few additional courses, you may be able to double major in Biology and Education. See the Biology Department for requirements.