



Pittsburg State University
College of Arts and Sciences Program Guide

Degree: Bachelor of Science
 Major: Biology
 Emphasis/Option: Ecology and Organismic Biology
 Minor (if required):

As of Fall 2017

Biology- Basic (14-19 hours)

- BIOL 111: General Biology3
- and BIOL 112: General Biology Laboratory2
- BIOL 211: Principles of Biology I4
- BIOL 212: Principles of Biology II4
- BIOL 322: Genetics3
- and BIOL 323: Genetics Laboratory2
- BIOL 699: Senior Seminar and Assessment.1
- BIOL 111/112 General Biology/Laboratory is waived with
 ACT Comprehensive >23 or permission of department.

Biology- Intermediate (12 hours)

- BIOL 311: Cell Biology3
- BIOL 330: Principles of Ecology.3
- BIOL 331: Principles of Ecology Laboratory1
- BIOL 371: General Microbiology3
- and BIOL 372: General Microbiology Laboratory2

Required Biology Emphasis (9 hours)

- BIOL 304: Soil Ecology3
- BIOL 313: Principles of Conservation3
- BIOL 548: Taxonomy of Vascular Plants3

Select one course from each of the following groups

1-3 (8-9 hours)

Group 1 Animals

- BIOL 533: Ichthyology4
- BIOL 534: Herpetology4
- BIOL 535: Ornithology4
- BIOL 536: Mammalogy3
- BIOL 561: General Entomology3

Group 2 Plants

- BIOL 538: Aquatic Plants2
- BIOL 641: Identification of woody Plants2
- BIOL 781: Freshwater Algae3
- BIOL 788: Mycology3

Group 3 Ecology

- BIOL 502: Topics in Environmental Biology (____)1-3
- BIOL 515: Stream Ecology4
- BIOL 633: Limnology4
- BIOL 639: Terrestrial Field Ecology4

Other Biology Hours (9 hours)

Other Required (27-31 hours)

- CHEM 215: General Chemistry I3
- and CHEM 216: General Chemistry I Laboratory2
- CHEM 320: Introductory Organic Chemistry.3
- and CHEM 326: Organic Chemistry Laboratory2
- GEOG 303: Geographic Information Systems I4
- PHYS 160: Physical Geology3
- and PHYS 165: Physical Geology Laboratory1

Minor (Physical Science recommended) (6 hours)

Other electives (3-7 hours)

GENERAL EDUCATION REQUIREMENTS

(38-42 hrs.)

Basic Skills

12-13 hours

COMM 207	Speech Communication.....	3
ENGL 101	English Composition.....	3
ENGL 190	Honors English Composition.....	3
OR ENGL 299	Introduction to Research Writing.....	3

Mathematics (Select one)

MATH 110	College Algebra with Review	5
MATH 113	College Algebra.....	3
MATH 126	Pre-Calculus.....	4
MATH 133	Quantitative Reasoning	3
MATH 143	Elementary Statistics	3

Social Studies

3 hours

SOC 100	Introduction to Sociology	3
WGS 200	Introduction to Women's Studies	3

Political Studies (Select one)

3 hours

POLS 101	U.S. Politics.....	3
POLS 103	Comparative Political Institutions	3

Producing and Consuming

5-6 hours

(Select one from two of the following three categories)

Economy

ECON 191	Issues in Today's Economy	3
FCS 230	Consumer Ed. and Personal Finance	3

Technology

EET 247	Computer Programming for Electronic Sys.	3
GT 190	Introduction to Technological Systems.....	2
GT 350	Technology and Civilization.	3
EDTH 330	Technology for the Classroom	3
TE 551	Integrated Technology for Educators.	3
TM 350	Societal Influence of Technology	3

Business

ACCTG 201	Financial Accounting	3
CIS 130	Computer Information Systems	3
MGT 101	Introduction to Business	3
MGT 105	Introduction to Entrepreneurship.....	3

Fine Arts and Aesthetic Studies (Select one)..... 2-3 hours

ART 155	Printmaking and Paper Arts	3
ART 178	Introduction to the Visual Arts.....	3
ART 188	The Designed World.....	3
ART 217	Crafts I.....	3
ART 222	Jewelry Design I	3
ART 233	Drawing I	3
ART 244	Ceramics I	3
ART 266	Sculpture I	3
ART 277	Painting I	3
ART 288	Introduction to Art History I	3
ART 289	Introduction to Art History II	3
ART 311	Art Education.....	3
ART 351	Printmaking, Papermaking, Bookarts and the Letterpress.....	3
ART 430	Automotive: Art and Design.....	3
COMM 105	Performance Appreciation	3
COMM 205	Performance Studies	3
COMM 295	Theatre History.....	3
ENGL 250	Introduction to Creative Writing.....	3

HHP 151	Dance Appreciation.....	3
MUSIC 120	Music Appreciation	3
MUSIC 121	Introduction to Music Literature	2

Cultural Studies (Select one)

3 hours

ANTH 101	Introduction to Cultural Anthropology.....	3
MLL 114	Chinese Language and Culture I	3
MLL 124	French Language and Culture I	3
MLL 154	Spanish Language and Culture I	3
MLL 184	Russian Language and Culture I	3
MLL 194	Korean Language and Culture I.....	3
GEOG 106	World Regional Geography	3
GEOG 300	Elements of Geography	3
GEOG 304	Human Geography	3
WGS 399	Global Women's Issues.....	3

Health and Well Being

4-6 hours

Psychological

PSYCH 155	General Psychology	3
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Physical (Select one)

FCS 203	Nutrition and Health.....	3
FCS 301	Nutrition.....	3
HHP 150	Lifetime Fitness Concepts.	1
NURS 303	Introduction to Public Health.....	3

Human Heritage

6 hours

(Select one from two of the following three categories)

History

HIST 101	World History to 1500.....	3
HIST 102	World History from 1500.....	3
HIST 201	American History to 1865.	3
HIST 202	American History from 1865	3

Literature

ENGL 113	General Literature.	3
ENGL 114	General Literature(Genre)	3
ENGL 116	General Literature(Theme).....	3
ENGL 120	Literature and Film	3
ENGL 315	Mythology.....	3
ENGL 320	Literature and Film	3

Philosophy

PHIL 103	Introduction to Philosophy.	3
PHIL 105	Ethics	3
PHIL 112	Biomedical Ethics.....	3
PHIL 113	Business Ethics.....	3
PHIL 114	Environmental Ethics.....	3
PHIL 207	Critical Thinking.....	3
PHIL 208	Logic	3
PHIL 231	World Religions.....	3

Notes ** General education sciences are satisfied by course requirements in biology (BIOL 211) and chemistry (CHEM 215/216)

NOTE: The information contained herein is intended to be used for the planning of a student's academic program and does not constitute a contract. While this guide was prepared with the latest information, courses, graduation requirements, and curricula are subject to change.

When a student attains 85 semester hours of credit (including current enrollment) the student must apply for a degree check in the Office of the Registrar (Degree Checking Section), Room 102 Russ Hall.

MINIMUM GENERAL REQUIREMENTS: The minimum requirements for graduation include 124 semester hours of which 60 hours must be from a four year university. In addition, 45 semester hours must be upper division and 30 hours in residence at PSU (including 24 of the last 30). Minimum GPA for non-education degree is 2.0 overall [2.0 in major], secondary education degree is 2.5 overall [2.75 in major], and early/late childhood/unified degree is 2.80 overall [3.0 in major]. A minimum GPA of 2.0 in any minor and in residence coursework is required. General Education and all degree requirements are provided in the online catalog. Refer to individual departments for specific requirements.