

Bachelor of Science (B.S.) in Biology

Curriculum Map

Required Coursework – 120 hrs.

General Education Requirements (40 hours)

English Composition – 9 hours

___ ENGL 1113 Freshman English I		
___ ENGL 1213 Freshman English II		
___ Communications Elective _____		

Mathematics – 3 hours

___ MATH 1513 Coll. Alg. OR MATH 1523 Modeling		
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Natural Science – 9* hours

___ BIOL 1304 Principles of Biology I		
___ CHEM 1135 General Chemistry I		

U.S. History and Government – 6 hours

___ HIST 1313 or HIST 1323 US History		
___ POLS 1013 American Government		

Social Science – 6 hours

___ ECON 2013 Elements of Economics		
___ PSYC 1113 General Psychology		

Humanities – 6 hours

___ HUM		
___ HUM		

Student Success – 1 hour

___ UCSS 1111 Student Success Seminar		
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Liberal Arts and Science Electives – 1 hour*

___ Additional CHEM 1135 hour will count		
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Major Requirements (60 or 52 hours)

Biology Core – 20 hours

___ BIOL 1504 Principles of Biology II		
___ BIOL 2205 Human Physiology		
___ BIOL 3024 Genetics		
___ BIOL 3813 Biological Statistics		
___ BIOL 4014 Cellular/Molecular Biology		

Biology Electives – 19 hrs. for Academic Option/22 hrs. for Nat. Sci. Option

___ BIOL		
___ BIOL		
___ BIOL		
___ BIOL		
___ BIOL		

Chemistry Electives – 10 hours (must include Inorganic and Organic courses)

___ CHEM 2235 – General Chemistry II (suggested)		
___ CHEM 3315 – Organic Chemistry I (suggested)		
___ CHEM 3325 – Organic Chemistry II (suggested)		

Academic Option only: Physics and Math Requirements – 11 hours

___ MATH 1613 Plane Trigonometry		
___ PHYS 2014 General Physics I		
___ PHYS 2114 General Physics II		

Electives – Sufficient to bring upper level hours to 40 and total credit hours to 120

Minor Requirements (~20 hours)

Biology majors are required to have a minor in some other academic field. Hours designated toward the minor are included in the 120 hours required for the major.

Minor: _____

Recommended Plan of Study

First Semester – 16 hours

ENGL 1113 Freshman English I
MATH 1513 College Algebra OR MATH 1523 Modeling
BIOL 1304 Principles of Biology I
CHEM 1135 General Chemistry I
UCSS 1111 Student Success Seminar

Second Semester – 18 hours

ENGL 1213 Freshman English II
MATH 1613 Plane Trigonometry (if Academic Option)
BIOL 1504 Principles of Biology II
CHEM 2235 General Chemistry II
HIST 1313 or HIST 1323 US History

Third Semester – 14 hours

BIOL 2104 Human Anatomy
PHYS 2014 General Physics I (if Academic Option)
POLS 1013 American Government
Humanities – 3 hours

Fourth Semester – 16 hours

PSYC 1113 General Psychology
PHYS 2114 General Physics II (if Academic Option)
ECON 2013 Elements of Economics
Minor Courses or Electives – 6 hours

Fifth Semester – 16 hours

BIOL 3024 Genetics
Humanities – 3 hours
CHEM 3315 – Organic Chemistry I
Minor Courses or Electives – 4 hours

Sixth Semester – 16 hours

BIOL 3813 – Biological Statistics
CHEM 3325 – Organic Chemistry II
Minor Courses or Electives – 8 hours

Seventh Semester – 12 hours

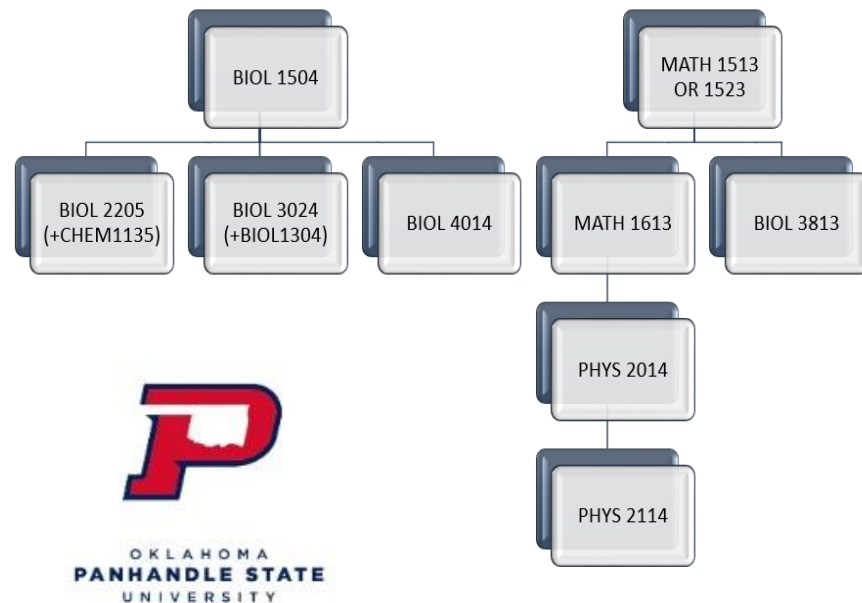
BIOL 4014 Cellular & Molecular Biology
Minor Courses or Electives – 8 hours

Eighth Semester – 12 hours

Minor Courses or Electives – 12 hours

This is a sample course sequence timeline only. This does not represent a contract, nor does it guarantee course availability. A student may require more than eight semesters to complete the degree.

Biology course sequence to be followed:



Notes to Advisees:

- No more than 12 semester hrs. may be used for both general educ. and major requirements.
- All Biology courses toward the Biology major must have a grade of C or better.
- For Natural Science Option, replace MATH 1613, PHYS 2014, and PHYS 2114 with Biology electives.

Course Rotation:

Fall only courses:

- BIOL 3024 Genetics
- BIOL 4014 Cellular/Molecular Biology
- CHEM 3315 Organic Chemistry I
- PHYS 2014 Physics I

Spring only courses:

- BIOL 2205 Human Physiology
- CHEM 2235 General Chemistry II
- CHEM 3325 Organic Chemistry II
- PHYS 2114 Physics II