

# BIOLOGICAL SCIENCES | BACHELOR OF SCIENCE: BIOLOGY (HEALTH PROFESSIONS)

## Degree Maps

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
ENG 101	English Composition I	3
BIOL 180 & 180L	Principles of Biology and Principles of Biology Laboratory	4
UNIV 101	Freshman Seminar	1
CHEM 120 & 120L	University Chemistry I and University Chemistry Laboratory I	5
MATH 110	College Algebra	3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
CHEM 122 & 122L	University Chemistry II and University Chemistry Laboratory II	5
ENG 102	English Composition II	3
BIOL 260 & 260L	Zoology and Zoology Laboratory	4
MATH 122 or MATH 331	Plane Trigonometry or Calculus Methods	3
<b>Hours</b>		<b>15</b>
<b>Second Year</b>		
<b>Fall</b>		
SGE050 - Social Behavioral Sciences Discipline Area		3
CHEM 340 & 340L	Organic Chemistry and Organic Chemistry Laboratory I	5
BIOL 325 & 325L	Genetics and Genetics Laboratory	4
COMM 100	Fundamentals of Oral Communication	3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
CHEM 342 & 342L	Organic Chemistry II and Organic Chemistry Laboratory II	5
BIOL 345 & 345L	Human Anatomy and Human Anatomy Laboratory	4
MATH 250	Elements of Statistics	3
BIOL 490 & 490L	General Microbiology and General Microbiology Laboratory	4
<b>Hours</b>		<b>16</b>
<b>Third Year</b>		
<b>Fall</b>		
CHEM 662 & 662L	Biochemistry I and Biochemistry Laboratory I	5
BIOL 346 & 346L	Human Physiology and Human Physiology Laboratory	4
PHYS 111 & 111L	Physics I and Physics I Laboratory	5
SGE060 - Arts Humanities Discipline Area		3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
CHEM 664 & 664L	Biochemistry II and Biochemistry Laboratory II	5
BIOL 435	Cellular Biology	3

PHYS 112 & 112L	Physics II and Physics II Laboratory	5
SGE050 - Social Behavioral Sciences Discipline Area		3
<b>Hours</b>		<b>16</b>
<b>Fourth Year</b>		
<b>Fall</b>		
BIOL 442	Scientific Communication	3
BIOL 648	Immunology	3
Directed Electives		4
SGE070 - Institutionally Designated Area: Personal and Professional Development		3
<b>Hours</b>		<b>13</b>
<b>Spring</b>		
Directed Electives		3
Directed Electives		3
SGE060 - Arts Humanities Discipline Area		3
SGE070 - Institutionally Designated Area: Critical Thinking		3
<b>Hours</b>		<b>12</b>
<b>Total Hours</b>		<b>120</b>

**Academic Degree Maps** are term-by-term sample course plans that specify milestones, courses, and special requirements that are necessary for facilitating on-time completion. Degree Maps are *examples* and are not prescriptive. Individualized choices such as concentration options, transfer credits, optional minors, advisory programs (certificates), etc. can alter the recommended coursework. Course offerings are subject to change. Students should consult with their academic advisors for additional guidance on course planning.

To determine courses to take in the directed choices (often listed as Program Elective Course) and directed elective course blocks see the overview tab for courses. To locate approved courses in General Education areas (Undergraduate Programs) see the general education section (<https://catalog.fhsu.edu/general-education/>) of the catalog.

The undergraduate course maps typically advise the most efficient route for students to complete the general education requirements. Courses that are required in the major may be listed as fulfilling relevant general education requirements. This will result in more open elective course hours in some maps than is listed on the degree overview page.