BIOLOGY, B.A. TO PUBLIC HEALTH, M.P.H. ACCELERATED PROGRAM

This accelerated program will provide students majoring in biology a pathway to pursue training in population health.

Biology majors will apply for acceptance into the accelerated program with the M.P.H. in the fall of their fifth semester of collegiate study. Students can choose any of the following concentrations offered by the M.P.H. program, and take up to 15 credits of coursework, a mix of undergraduate and graduate credits, each semester of senior year. A maximum of 15 credit hours of M.P.H. coursework can be taken during senior year. Students will fully matriculate in the M.P.H. program as graduate students after the conferral of their undergraduate degree.

For additional information, see the catalog entries for the following programs:

Biology, B.A. (https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-ba/)


Requirements

To apply, students must have a minimum cumulative GPA of 3.40, be in their fifth semester of collegiate study, have completed 90 credits toward their undergraduate degree by the end of their sixth semester of study, and must be able to complete their senior year with no more than 15 credits (mix of graduate and undergraduate coursework) in each fall and spring semesters.

Apply here (https://sophas liaisoncas.com/applicant-ux/#/login)

Students must maintain a 3.4 cumulative GPA each semester of senior year and meet all undergraduate requirements for graduation by the end of their 8th semester of collegiate study. The M.P.H. GPA in year 4 will be monitored by the Undergraduate Public Health Director, and progression toward completion of the undergraduate degree requirements will be monitored by students’ Biology Faculty Mentor per normal semester processes.

Upon graduation with the B.A./B.S. in Biology, transcripts will be reviewed by the M.P.H. Program for progression into year 5 of the accelerated program and matriculation as a full graduate student. In year 4, students must earn minimum grades in M.P.H. courses that are consistent with M.P.H. program requirements ("B-" in M.P.H. core courses, "B" in M.P.H. concentration courses, "C" in M.P.H. electives) in year 4; if a sub-threshold grade is earned, the student will repeat the course per M.P.H. program expectations. If students earn a GPA of less than 3.0 in M.P.H. courses in year 4 (the minimum GPA required to be in good academic standing in the M.P.H. program), then they will be placed on academic probation when they fully matriculate into the M.P.H. program after graduation with the B.S./B.A. in Biology. As with traditional M.P.H. students, these students will be offered support by the M.P.H. program with resources and course planning to help them in regaining good academic standing.

Note: Per University policies, students remain an undergraduate until the B.A./B.S. in Biology is conferred, and as such, students are not eligible for graduate assistantships or graduate scholarships until they fully matriculate as a graduate student in year 5.

Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 1240 &amp; BIOL 1245</td>
<td>General Biology: Information Flow and Evolution and Principles of Biology 1 Laboratory</td>
<td>4</td>
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<tr>
<td>CHEM 1110 &amp; CHEM 1115</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
<td>4</td>
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<tr>
<td>CORE 1000</td>
<td>Ignite First Year Seminar</td>
<td>2-3</td>
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<tr>
<td>CORE 1500</td>
<td>Cura Personalis 1: Self in Community</td>
<td>1</td>
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<tr>
<td>CORE 1900</td>
<td>Eloquenta Perfecta 1: Written and Visual Communication</td>
<td>3</td>
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<tr>
<td>General Elective</td>
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Credits 15-16
Spring
BIOL 1260 & BIOL 1265  General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory 4
CHEM 1120 & CHEM 1125  General Chemistry 2 and General Chemistry 2 Laboratory 4
CORE 1600  Ultimate Questions: Theology 3
General Electives 5
Credits 16

Year Two
Fall
BIOL 3020  Biochemistry and Molecular Biology 3
MATH 1510  Calculus I 4
CORE 1700  Ultimate Questions: Philosophy 3
CORE 1200  Eloquentia Perfecta 2: Oral and Visual Communication 3
General Electives 2
Credits 15

Spring
BIOL 3040  Cell Structure & Function 3
MATH 1300 or BIOL 4790  Elementary Statistics with Computers or Biometry 3-4
CORE 2500  Cura Personalis 2: Self in Contemplation 0
General Electives 3
Credits 14-15

Year Three
Fall
Eligible students formally apply to the Accelerated Program.
BIOL 3010  Evolutionary Biology 3
Biology Elective 3
CORE 3400  Ways of Thinking: Aesthetics, History, and Culture 3
CORE 2800  Eloquentia Perfecta 3: Creative Expression 2-3
General Electives 3
Credits 15-16

Spring
MPH Program reviews applications, conducts interviews, and notifies students of admission decision.
BIOL 3030  Principles of Genetics 0-3
Biology Elective 3
CORE 3600  Ways of Thinking: Social and Behavioral Sciences 3
CORE 4000  Collaborative Inquiry 2-3
General Electives 7
Credits 14-15

Year Four
Fall
CORE 3500  Cura Personalis 3: Self in the World 1
Laboratory Elective (p. 2) 1-5
Biology Elective 3-4
MPH Course 2-3
MPH Course 3
Credits 15

Spring
Plant Elective (p. 2) 3-4
MPH Course 3
MPH Course 3
MPH Course 3
General Electives 2-3
Credits 15

Summer
MPH Program reviews students for progression to full MPH year
MPH Course 3
Credits 3

Year Five
Fall
MPH Courses 15
Credits 15

Spring
MPH Courses 15
Credits 15

Credits 153-160

Laboratory Electives
Code  Title  Credits
BIOL 3060  Cell Structure & Function Laboratory 1
BIOL 3100  Experiments in Genetics Lab 1
BIOL 3260  Biology of Plants & Fungi 0,4
BIOL 3420  Comparative Anatomy of the Vertebrates 0,5
BIOL 3470  General Physiology Laboratory 1
BIOL 4050  Molecular Technique Lab 2
BIOL 4100  Natural History of Vertebrates 0,4
BIOL 4115  Forest Park Living Lab Field Ecology Techniques 1
BIOL 4120  Field Botany 5
BIOL 4130  Field Mammalogy 5
BIOL 4140  Field Ornithology 5
BIOL 4160  Microbial Ecology and Molecular Evolution 4
BIOL 4200  Aquatic Ecology 0,4
BIOL 4260  Biology of Amphibians and Reptiles 0,4
BIOL 4280  Biology of Fishes 0,4
BIOL 4320  Cave Biology 4
BIOL 4330  Spring Flora of the Ozarks 4
BIOL 4635  Immunobiology Lab 1
BIOL 4370  Animal Behavior Lab 1
BIOL 4440  Vertebrate Histology: Structure and Function of Tissues 0,4
BIOL 4650  General Microbiology Laboratory 2

Plant Electives
Code  Title  Credits
BIOL 3260  Biology of Plants & Fungi 0,4
BIOL 3490  Plant Physiology 3
BIOL 3450  Economic Botany 3
BIOL 4090  Plant Ecology 3
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