

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/>)

Behavioral Science and Health Equity, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/behavioral-science-health-equity/>)

Biosecurity and Disaster Preparedness, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/biosecurity-disaster-preparedness/>)

Biostatistics, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/biostatistics/>)

Epidemiology, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/epidemiology/>)

Global Health, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/global-health/>)

Health Management and Policy, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/health-management-policy/>)

Maternal and Child Health, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/maternal-child-health/>)

Public Health Practice, M.P.H. (<https://catalog.slu.edu/colleges-schools/public-health-social-justice/graduate-programs/public-health-mph/public-health-practice/>)

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 support 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 full 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.

Course	Title	Credits
Year One		
Fall		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
CORE 1000	Ignite First Year Seminar	2-3
CORE 1500	Cura Personalis 1: Self in Community	1
CORE 1900	Eloquentia Perfecta 1: Written and Visual Communication	3
General Elective		1
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		9

Credits **15-16**

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 **14-15**

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 **15-19**

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
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Credits **15**

Spring

MPH Courses	15
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Credits **15**

Total 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

BIOL 4120	Field Botany	5
BIOL 4330	Spring Flora of the Ozarks	4