



Bachelor of Science in Natural Sciences

Major: Biology

2020-2021 Sample 4-Year Plan

Total Degree Requirements: 120 credits

Student _____ Student ID# _____ Student Phone # _____
 Advisor _____ Minimum GPA 2.0 in major courses Minor/Career Interest(s) _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the [Undergraduate Catalog](#).

First Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 119	First Year Seminar		2	F	
BIOL 151-151L	General Biology I and Lab (SGR #6)		4	F	
CHEM 112	General Chemistry I	p. MATH 114 or higher placement	3	F/S/Su	
CHEM 112L	General Chemistry I Lab		1	F/S/Su	
ENGL 101	Composition I (SGR #1)	p. Placement	3	F/S/Su	
SGR # 3	Social Sciences/Diversity	See list in catalog	3		
Total Credit Hours			16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 290	Seminar		1	S	
BIOL 153-153L	General Biology II and Lab (SGR #6)		4	S	
CHEM 114	General Chemistry II	p. CHEM 112, MATH 114 or higher	3	F/S/Su	
CHEM 114L	General Chemistry II Lab		1	F/S/Su	
SPCM 101	Fundamentals of Speech (SGR #2)		3	F/S/Su	
SGR #4	Arts and Humanities/Diversity	See list in catalog	3		
Total Credit Hours			15		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Shadowing or Internship				

Second Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 202	Genetics and Organismal Biology	p. BIOL 103 or BIOL 153, CHEM 114/L	3	F	
BIOL 202L	Genetics and Organismal Biology Lab		1	F	
CHEM 326	Organic Chemistry I	p. CHEM 114 (if you only want 2 sciences, hold off on CHEM)	3	F	
CHEM 326L	Organic Chemistry I Lab		1	F	
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3	F/S/Su	
MICR 233-233L	Introductory Microbiology and Lab	p. BIOL 151 and 6 cr. CHEM	4	F	
Total Credit Hours			15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 204	Genetics and Cellular Biology	p. BIOL 202/L	3	S	
BIOL 204L	Genetics and Cellular Biology Lab		1	S	
BIOL 221-221L or BOT 201-201L or VET 223/L	Human Anatomy and Lab or General Botany and Lab or	p. Sophomore standing or consent p. BIOL 101 or BIOL 151 p. CHEM 108 or 120 or 326	4	F/S/SU S	
CHEM 328	Organic Chemistry II	p. CHEM 326	3	S	
CHEM 328L	Organic Chemistry II Lab		1	S	
SGR #4	Arts and Humanities/Diversity	See catalog for list	3		

Information Subject to Change. This is not a contract.

p. = Course Prerequisite c. Course Co-requisite
 Semester: F = Fall, S = Spring, SU = Summer



Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Total Credit Hours			15		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Research and/or Internship				

Third Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 373 or BIOL 476	Evolution Advanced Mammalian Physiology	p. BIOL 151 or BIOL 153 p. BIOL 221 or VET 223	3 4	F	
MATH 121-121L	Survey of Calculus (SGR #5)	Or MATH 114 and MATH 120, or MATH 115, or MATH 123	4 – 6		
PHYS 111-111L or PHYS 101-101L	Introduction to Physics I and Lab Survey of Physics and Lab	p. MATH 114 or higher Discuss with adviser whether PHYS 111 -113 is appropriate	4		
SGR #3	Social Sciences/Diversity	See list in catalog	3		
Total Credit Hours			14 – 16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 325-325L or BOT 327-327L or General Elective	Physiology and Lab or Plant Physiology and Lab or Select from any discipline if VET 223/BIOL 476 completed	p. BIOL 221 p. BOT 201	4	F/S/Su S	
BIOL 490	Seminar		2		
STAT 281 or MATH 125	Introduction to Statistics Calculus II	p. MATH 103 or higher p. MATH 123	3 4	F/S/Su	
PHYS 113-113L or elective	Introduction to Physics II and Lab Elective	p. PHYS 111/L	3 - 4		
General Elective	Select from any discipline		3		
	GRE preparation if pursuing graduate school				
Total Credit Hours			15 - 17		

Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	GRE and application to graduate school				

Fourth Year

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		4		
MICR 439 or General Elective	Medical and Veterinary Immunology Peer mentoring or other electives	p. MICR 233 & BIOL 204	3	F	
General Elective	Select from any discipline		3		
Total Credit Hours			14		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
Major requirements	Additional BIOL, MICR, BOT credits – 300 or 400 level		3		
ENGL 379	Technical Communication (BIOL/MICR section)	p. ENGL 201	3	F/S	
General Elective	Select from any discipline to reach 120 total credits		3-5		
Total Credit Hours			12-15		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the [Honors program requirements](#).

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p. = Course Prerequisite c. Course Co-requisite
Semester: F = Fall, S = Spring, SU = Summer