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Major: Biotechnology				
2020-2021 Sample 4-Year Plan				
Total Degree Requirements: 120 credit	ts			
Student	Student ID#		Student Phone #	
Advisor	Minimum GPA	2.0 in major courses	Minor/Career Interest(s)	
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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 <u>Undergraduate Catalog</u>.

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		
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Spring Prefix + Number	Course Title	Total Credit Hours Prerequisites/Comments	-	Semester	Grade
	Course Title Biotechnology in Agriculture and Medicine		-	Semester S	Grade
Prefix + Number			Credits		Grade
Prefix + Number ABS 205	Biotechnology in Agriculture and Medicine	Prerequisites/Comments	Credits 2	S	Grade
Prefix + Number ABS 205 BIOL 153-153L	Biotechnology in Agriculture and Medicine General Biology II and Lab (SGR #6)	p. BIOL 151, AP, or B in BIOL 101	Credits 2 4	S S	Grade
Prefix + Number ABS 205 BIOL 153-153L CHEM 114	Biotechnology in Agriculture and Medicine General Biology II and Lab (SGR #6) General Chemistry II	p. BIOL 151, AP, or B in BIOL 101	Credits 2 4	S S F/S/Su	Grade
Prefix + Number ABS 205 BIOL 153-153L CHEM 114 CHEM 114L	Biotechnology in Agriculture and Medicine General Biology II and Lab (SGR #6) General Chemistry II General Chemistry II Lab	Prerequisites/Comments p. BIOL 151, AP, or B in BIOL 101 p. CHEM 112, MATH 114 or higher	Credits 2 4 3 1	S S F/S/Su	Grade

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 153, CHEM 114/L	3	F	
BIOL 202L	Genetics and Organismal Biology Lab		1	F	
BIOL 235	Introduction to Biotechnology		3	F	
MICR 233-233L	Introductory Microbiology and Lab	p. BIOL 151 & 6 cr. CHEM	4	F	
SGR #3	Social Sciences/Diversity	See list in catalog	3		
		Total Credit Hours	14		
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	
ENGL 201	Composition II (SGR #1)	p. ENGL 101	3	F/S/Su	
SGR #4	Arts and Humanities/Diversity	Recommended PHIL 220	3		
General Elective	ENTR 236 recommended		3		
STAT 281	Introduction to Statistics	p. MATH 114 or higher	3	F/S/Su	
		Total Credit Hours	16		



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
Applications	ABE 343/L, AS 332, AS 333/L, DS 301/L, DS 312/L,	3-4 credits, course depending	3-4		
Requirement	HO 414/L, PS 383/L, or MICR 440L		_		
MICR 448	Molecular and Microbial Genetics	p. BIOL 204 or 371; Cross-Listed: BIOL 448	4	F	
MICR 438L	Techniques in Molecular Biology Laboratory	p. MICR 448 or concurrent	2	F	
CHEM 326	Organic Chemistry I	p. CHEM 114	3	F	
CHEM 326L	Organic Chemistry I Lab	(if only want 2 sciences, wait on CHEM)	1	F	
		Total Credit Hours	13-14		
Spring	·				
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
Advanced	BIOL 483, MICR 332 & 332/L, MICR 439, MICR 424, or	3-4 credits course depending	3-4		
Fundamentals Requirement	VET 223/L				
CHEM 328	Organic Chemistry II	p. CHEM 326	3	S	
CHEM 328L	Organic Chemistry II Lab		1	S	
BIOL 490	Seminar		2		
General Electives	Select from any discipline		5		
	GRE preparation if pursuing graduate school	Total Credit Hours	14-15		
Summer	· ·	·			
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
	Research and/or Internship				
	GRE and graduate school application				

Fourth Year					
Fall					
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MATH 121-121L or MATH 123	Survey of Calculus and Lab or Calculus I (SGR #5)	p. MATH 114, 115 or placement p. MATH 115 or placement	5		
BIOL 383	Bioethics	Cross-Listed: PHIL 383	4	F	
CHEM 464	Biochemistry I	p. CHEM 229 or 328	3	F/SU	
MICR 450	Applied Microbiology and Biotechnology	p. MICR 231/L or MICR 233/L	3	F	
		Total Credit Hours	15		
Spring				•	
Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
ENGL 379	Technical Communication (BIOL/MICR Section)	p. ENGL 201 or 283	3	F/S	
STAT 435	Applied Bioinformatics	p. STAT 281	3	S	
PHYS 101-101L or PHYS 111-111L	Survey of Physics and Lab or Introduction to Physics I and Lab	p. MATH 114 or higher	4	F/S/Su	
General Electives	Select from any discipline to reach 120 total credits		5		
CHEM 466	Biochemistry Lab	p. CHEM 464	1		
		Total Credit Hours	16		

Comments/Notes

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.