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B.S. Biology, Biomedical Sciences Concentration

Program Admissions Requirements

There are no program admission requirements for the BS in Biology, Biomedical Sciences Concentration.

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3 - MATH 1160	or MATH 1170	3
Objective 4		6
Objective 5 - BIOL 1101,	7	
Objective 6		6
Students must fulfill Obj	3	
Objective 7		
Objective 8		
Objective 9		3
Total Credits		37

Major Requirements

Code	Title	Credits
Core Courses		
BIOL 1101	Biology I	4
& 1101L	and Biology I Lab	
BIOL 1102	Biology II	4
& 1102L	and Biology II Lab	
BIOL 1191	Wonder about Biology	1
BIOL 2206	Cell Biology	4
& BIOL 2207	and Cell Biology Laboratory	
BIOL 2209	General Ecology	4
& 2209L	and General Ecology Laboratory	
BIOL 3316	Biometry Laboratory	1
BIOL 3358	Genetics	3
BIOL 4417	Organic Evolution	3
BIOL 4491	Seminar	1
or BIOL 4492	Seminar	
MATH 1160	Survey of Calculus	3-4
or MATH 1170	Calculus I	
MATH 3350	Statistical Methods	3
CHEM 1111	General Chemistry I	5
& 1111L	and General Chemistry I Lab	
CHEM 1112	General Chemistry II	4
& 1112L	and General Chemistry II Lab	
CHEM 3301	Organic Chemistry I	4
& CHEM 3303	and Organic Chemistry Laboratory I	
PHYS 1111	General Physics I	4
& PHYS 1113	and General Physics I Laboratory	
Select two of the following:		7

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CHEM		Organic Chemistry II	
& CHE		and Organic Chemistry Laboratory II	
& PHYS		General Physics II and General Physics II Laboratory	
BIOL 4		Biochemistry	
	l Sciences Requir	•	
	and Physiology	cincina	8
BIOL 3		Advanced Human Anatomy and	Ü
& 33011		Physiology 1	
		and Advanced Human Anatomy and	
		Physiology 1 Lab	
AND			
BIOL 3		Advanced Human Anatomy and	
& 33021	L	Physiology 2 and Advanced Human Anatomy and	
		Physiology 2 Lab	
Upper Div	ision BMS Electiv	ves: (minimum of 13 credits) *	13
BIOL 3		Advanced Pathobiology	
BIOL 3	324	Developmental Biology	
& 3324	L	and Developmental Biology Lab ¹	
BIOL 4	415L	Human Neurobiology Lab	
BIOL 4	423	General Parasitology	
BIOL 4	430	Bioethics	
BIOL 4	432	Biochemistry ¹	
BIOL 4	437	Experimental Biochemistry	
BIOL 4	443	Endocrinology	
BIOL 4	444	Molecular Biology	
& 44441		and Molecular Biology Lab	
BIOL 4		Immunology	
& 44511		and Immunology Laboratory	
BIOL 4		Foundations in Neuroscience	
BIOL 4		Advanced Immunology	
BIOL 4		General Virology	
	481/4482 280/4480	Independent Problems Mentored Research Alliance	
CPH 44 CPH 44		Environmental Health in Community	
CPH 44	42	Environmental Health in Community and Public Health	
HPSS 3	301	Physiology of Exercise	
& 33011		and Physiology of Exercise Laboratory	
PSCI 33	301	Introduction to Pharmacology	
HPSS 3	302	Biomechanics	
& 33021	L	and Biomechanics Laboratory	
PSCI 33	368	Introduction to Toxicology	
NTD 33		Nutrition for Health Professionals	
PSYC 3		Psychopathology	
PSYC 3		Cognitive Neuroscience	
Microbiolo			4
BIOL 2:		Principles of Microbiology	
& 22331		and Principles of Microbiology Lab	00
Total Cred	lits		80

- BIOL 3324 Developmental Biology and BIOL 4432 Biochemistry are strongly recommended as these are often required by medical, dental, and veterinary schools.
- * a minimum of 8 credits in BIOL and at least one lab course

Degree Totals

Code Title		Credits
Program Admission Requirements		0
General Education		37
Major Requirements (Required Gen	eral Education credits removed.)	70
Upper Division Free Electives		0
Free Electives		13
Total Credits		120

ISU Degree Requirements (https://coursecat.isu.edu/undergraduate/degreerequirements/)

ISU General Education (https://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/)

Major Academic Plan (MAP)