

Accelerated B.S. Biology, Integrative Organismal Biology Concentration

Accelerated BS to MS Program

Students accepted into an accelerated undergraduate program may take departmentally approved graduate coursework as part of their undergraduate curriculum. These credits will count towards both their bachelor's and master's degrees and can fulfill major requirements, upper-division requirements, and/or free electives. For details on accelerated programs at Idaho State University, please see (Degree Requirements (<https://coursecat.isu.edu/undergraduate/degerequirements/>)).

Once accepted into an accelerated degree program, it is strongly recommended for students to stay in close communication with their advisor regarding pursuit of acceptance into the Graduate School and the master's degree program at Idaho State University. Acceptance into an accelerated program during the bachelor's degree program is the first step in the admissions process. A separate application to the Graduate School is necessary for all accelerated programs. For more information regarding application and admission to the Graduate School at Idaho State University, please see the Graduate Admissions section of the graduate catalog (<http://coursecat.isu.edu/graduate/graduateadmissions/>).

Biology Accelerated Criteria

This accelerated program gives outstanding bachelor's degree students in Biology a "fast-track" option to pursue their Master of Science in Biology degree.

Students accepted into the accelerated program may take up to 8 credit hours of 5000 level courses during the last two semesters of their bachelor's program that will apply to both the bachelor's and master's degree requirements. Students have to meet all requirements for both the bachelor's degree and master's degree.

Additional requirements for students in this program are:

- Students need to identify a suitable advisor for their MS program (see <https://www.isu.edu/biology/degree-programs/graduate-degrees/ms-biology/>).
- Students must earn at least a "B" (3.0) in each graduate-level course counted for the program.

Eligibility for this program:

- Completion of at least 70 undergraduate credits applicable to the Bachelor of Science in Biology program at the time of application.
- Overall GPA of at least 3.0 on a 4.0 scale at the time of application.

Students who wish to enroll in this program should submit an application no later than the end of the second semester of their junior year. Applicants are not required to take the Graduate Record Examination (GRE) test.

Meeting these eligibility requirements does not guarantee acceptance into the accelerated master's degree programs.

Program Admissions Requirements

There are no program admission requirements for the BS in Biology, Integrative Organismal Biology 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, BIOL 1101L, PHYS 1111		7
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7		
Objective 8		
Objective 9		3
Total Credits		37

Major Requirements

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

CHEM 3302 & CHEM 3304	Organic Chemistry II and Organic Chemistry Laboratory II
PHYS 1112 & PHYS 1114	General Physics II and General Physics II Laboratory
BIOL 4432	Biochemistry

Integrative Organismal Biology Requirements**Anatomy, Physiology and Development (a minimum of 10 credits) 10**

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BIOL 3301 & 3301L	Advanced Human Anatomy and Physiology 1 and Advanced Human Anatomy and Physiology 1 Lab
BIOL 3302 & 3302L	Advanced Human Anatomy and Physiology 2 and Advanced Human Anatomy and Physiology 2 Lab
BIOL 3303 & 3303L	Principles of Animal Physiology and Principles of Animal Physiology Lab
BIOL 3314 & 3314L	Comparative Vertebrate Anatomy and Comparative Vertebrate Anatomy Lab
BIOL 3324 & 3324L	Developmental Biology and Developmental Biology Lab
BIOL 4404/5523	Plant Physiology
BIOL 4404L	Plant Physiology Lab
BIOL 4423	General Parasitology
BIOL 4433/5533	Microbial Physiology
BIOL 4433L/5533L	Microbial Physiology Laboratory
BIOL 4443/5543	Endocrinology
PSYC 3301	Psychopathology
PSYC 3352	Cognitive Neuroscience
PSYC 4431	Behavioral Neuroscience I
PSYC 4445	Learning and Behavior

Diversity or Evolutionary Courses - (a minimum of 7 credits) * 7

BIOL 2213	Fall Flora
BIOL 2214	Spring Flora
BIOL 4423/5523	General Parasitology
BIOL 4426/5526	Herpetology
BIOL 4426L/5526L	Herpetology Lab
BIOL 4427/5527	Ichthyology
BIOL 5527L/5527L	Ichthyology Lab
BIOL 4431/5531	General Entomology
BIOL 4431L/5531L	General Entomology Lab
BIOL 4434/5534	Microbial Diversity
BIOL 4434L/5534L	Microbial Diversity Lab
BIOL 4435/5535	Vertebrate Paleontology
BIOL 4438/5538	Ornithology
BIOL 4441/5541	Mammalogy
BIOL 4441L/5541L	Mammalogy Lab
BIOL 4495/5595	Animal Behavior

Biology Electives - (a minimum of 7 credits) 7

Any upper division BIOL course

BIOL 4481/5581	Independent Problems
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BIOL 4482/5582	Independent Problems
BIOL 2280/4480/5580	Mentored Research Alliance

Total Credits 79-80¹ BIOL 2233, BIOL 2233L, Principles of Microbiology and Lab, may substitute for BIOL 2206, BIOL 2207 in the ECB and IOB concentrations

* at least one lab course

Degree Totals

Code	Title	Credits
	Program Admission Requirements	0
	General Education	37
	Major Requirements (Required General Education credits removed.)	69
	Upper Division Free Electives	0
	Free Electives	14
	Total Credits	120

ISU Degree Requirements (<http://coursecat.isu.edu/undergraduate/degreeequirements/>)ISU General Education (<http://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/>)Major Academic Plan (MAP) (<https://www.isu.edu/advising/maps/>)**Master of Science in Biology (<https://coursecat.isu.edu/graduate/scienceengineering/biologicalsciences/msbiology/>)**