Complete 25 credits of upper-division (300-level or above)

25

INTERDISCIPLINARY BIOLOGY B.A.

The B.A. in Interdisciplinary Biology is designed for students who seek an interdisciplinary science program. This major is not research-oriented and is not considered a preparatory program for traditional research-based graduate programs. It is, however, designed for students seeking careers in environmental education, science writing, journalism or illustration, business, programming, wildlife film-making, or natural history centers and museums. There is enough latitude in the requirements to allow for a minor or even a double major in a related field of interest (e.g. journalism, art, computer science, media arts, etc.).

General Degree Requirements

To earn a baccalaureate degree, all students must complete successfully, in addition to any other requirements, the University of Montana General Education Requirements. Please refer to the General Education Requirements page (https://catalog.umt.edu/academics/general-education-requirements/) for more information.

Additional requirements for graduation can be found on the Degree/ Certificate Requirements for Graduation page (https://catalog.umt.edu/academics/graduation-requirements/).

Unless otherwise noted in individual program requirements, a minimum grade point average of 2.00 in all work attempted at the University of Montana-Missoula is required for graduation. Please see the Academic Policies and Procedures page (https://catalog.umt.edu/academics/policies-procedures/) for information on how your GPA is calculated.

Courses taken to satisfy the requirements of a major, minor, or certificate program must be completed with a grade of C- or better unless a higher grade is noted in the program requirements.

Bachelor of Arts - Interdisciplinary Biology

The lower-division core should be completed before attempting most upper-division major courses. AP Biology credit with a score of 3 may be substituted for either BIOB 160 /BIOB 161NorBIOB 170N/BIOB 171N.

Course Requirements

Code	Title	Hours
Core Courses		
Complete all of t	the following courses:	
BIOB 160	Principles of Living Systems	3
BIOB 161N	Principles of Living Systems Lab	1
BIOB 170N	Principles of Biological Diversity	3
BIOB 171N	Principles of Biological Diversity Lab	2
BIOB 194	Your Future in Biology	1
BIOB 272	Genetics and Evolution	4
Complete one of	f the following Ecology courses:	3-5
BIOE 172N	Introductory Ecology	
BIOE 342	Field Ecology	
BIOE 370	General Ecology	
Electives		

•	its of upper-division (300-level of above)	25	
credits in the biolo the following subj	ogical sciences. This includes courses with ect codes:		
BIOB - General			
BIOE - Ecological			
BIOH - Human			
BIOM - Microbio	ology		
BIOO - Organisr	mal		
BCH - Biochem	istry		
NEUR - Neuroso	cience		
WILD 346	Wildlife Physiological Ecology		
Chemistry and Ma	thematics		
Complete all of the	e following courses:		
CHMY 121N	Introduction to General Chemistry	4	
M 121	College Algebra	3	
or M 122	College Trigonometry		
or M 151	Precalculus		
or M 162	Applied Calculus		
or M 171	Calculus I		
Interdisciplinary E	lectives ¹		
'	its of courses in the following areas. Credits among disciplines.	12	
Art			
ARTZ 211A	Drawing I		
ARTZ 214	Illustration		
ARTZ 221A	Painting I		
ARTZ 231A	Ceramics I		
ARTZ 251A	Sculpture I		
ARTZ 284A	Photography I: Technologies and Processes		
ARTZ 314A	Environmental Drawing		
Business and A	nalytics		
BGEN 105S	Introduction to Business		
BGEN 220E	Business Ethics and Social Responsibility		
BMIS 270	MIS Foundations for Business		
BMIS 326	Introduction to Data Analytics		
ECNS 201S	Principles of Microeconomics		
Computer Scien	nce		
CSCI 150	Introduction to Computer Science		
CSCI 151	Interdisciplinary Computer Science I		
CSCI 152	Interdisciplinary Computer Science II		
CSCI 232	Intermediate Data Structures and Algorithms		
CSCI 451	Computational Biology		
Journalism			
JRNL 100H	Journalism and American Society		
JRNL 140A	Intro Radio/Audio Storytelling		
JRNL 170	Writing the News		
JRNL 257A	Beginning Video and Photojournalism		
JRNL 270	Reporting the News		
JRNL 331	Digital and Interactive Reporting		
JRNL 384	Documentary Film History		
Media Arts			

MART 101L	Intro to Media Arts	
MART 112A	Introduction to Film Editing	
MART 245	Sound Production & Design Fundamentals	
MART 255	Photoshop: Art and Design	
MART 256	Illustrator: Vector and Layout Design	
MART 341	Introduction to Web Design	
Natural Histor	у	
ASTR 131N	Planetary Astronomy	
ASTR 132N	Stars, Galaxies, and the Universe	
ASTR 134N	Planetary Astronomy Lab	
ASTR 135N	Stars, Galaxies, and the Universe Lab	
ASTR 142N	The Evolving Universe	
ERTH 101N	Earth Systems Science	
ERTH 103N	Earth Systems Science Lab	
GEO 201	The Rocky Planet	
GEO 202	The Water Planet	
GEO 318	Earth's Changing Climate	
GPHY 111N	Intro to Physical Geography: Climate, Landforms, and Vegetation	
GPHY 112N	Intro to Physical Geography Laboratory: Climate, Landforms, and Vegetation	
GPHY 311N	Biogeography	

Writing in the Disciplines Requirement

To complete the General Education Requirement for Writing in the Disciplines, Interdisciplinary Biology students can either take a complete writing course (in or outside of DBS) or partial writing courses (2-3) within the DBS Distributed Model.

Total Hours 61-63

Writing in the Disciplines Distributed Model Courses for Biological Sciences

Code	Title	Hours
1/3 Writing in the Disciplines Courses		
BCH 482	Advanced Biochemistry II	3
BIOB 410	Immunology	3
BIOB 425	Advanced Cellular & Molecular Biology	3
BIOB 483	Phylogenics and Evolution	3
BIOE 371	General Ecology Lab (equivalent to 271)	2
BIOE 403	Comparative Vertebrate Anatomy	4
BIOE 428	Freshwater Ecology	5
BIOH 447	Genes and Development Lab	3
BIOM 327	Vector-Borne Diseases: Public Health Perspectives	3
BIOM 435	Virology	3
BIOO 470	Ornithology	4
BIOO 475	Mammalogy	4
WILD 470	Conservation of Wildlife Populations	4
2/3 Writing in the	Disciplines Courses	
BCH 486	Biochemistry Research Lab	3
BCH 499	Senior Thesis/Capstone	3-6
BIOB 411	Immunology Laboratory	2
BIOB 499	Undergraduate Thesis	3-6
BIOE 448	Terrestrial Plant Ecology	4

- \	D.I.	
BIOM 420	Host-Microbe Interactions	3
BIOH 462	Principles of Medical Physiology	3
Full Writing in the	Disciplines Courses	
BIOM 499	Undergraduate Thesis	3-6
BIOE 485	Plant Evolution	3

Four Year Plan

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Course	Title	Hours
Freshman		
Autumn		
BIOB 160	Principles of Living Systems	4
& BIOB 161N	and Principles of Living Systems Lab	
CHMY 121N	Introduction to General Chemistry	4
M 121	College Algebra	3-4
or M 122 or M 151	or College Trigonometry or Precalculus	
or M 162	or Applied Calculus	
or M 171	or Calculus I	
WRIT 101	College Writing I	4
BIOB 194	Your Future in Biology	1
	Hours	16-17
Spring		
BIOB 170N	Principles of Biological Diversity	5
& BIOB 171N	and Principles of Biological Diversity Lab	
Interdisciplinary Electi	ive	3
General Education Red	quirement	3
Elective		4
	Hours	15
Sophomore		
Autumn		
Interdisciplinary Election	ive	3
Language 101		4-5
Intermediate Writing C	Course	3
Elective		6
	Hours	16-17
Spring		
Spring BIOB 272	Genetics and Evolution	4
	Genetics and Evolution Introductory Ecology ¹	3
BIOB 272 BIOE 172N Language 102	Introductory Ecology ¹	3 4-5
BIOB 272 BIOE 172N	Introductory Ecology ¹ quirement	3 4-5 3
BIOB 272 BIOE 172N Language 102 General Education Rec	Introductory Ecology ¹	3 4-5
BIOB 272 BIOE 172N Language 102 General Education Red	Introductory Ecology ¹ quirement	3 4-5 3
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn	Introductory Ecology ¹ quirement Hours	3 4-5 3 14-15
BIOB 272 BIOE 172N Language 102 General Education Red Junior Autumn BIOE 370	Introductory Ecology ¹ quirement Hours General Ecology ¹	3 4-5 3 14-15
BIOB 272 BIOE 172N Language 102 General Education Red Junior Autumn BIOE 370 BIOO 475	Introductory Ecology ¹ quirement Hours General Ecology ¹ Mammalogy	3 4-5 3 14-15
BIOB 272 BIOE 172N Language 102 General Education Red Junior Autumn BIOE 370 BIOO 475 General Education Red	Introductory Ecology ¹ quirement Hours General Ecology ¹ Mammalogy	3 4-5 3 14-15
BIOB 272 BIOE 172N Language 102 General Education Red Junior Autumn BIOE 370 BIOO 475	Introductory Ecology ¹ quirement Hours General Ecology ¹ Mammalogy quirement	3 4-5 3 14-15 3 4 3 5
BIOB 272 BIOE 172N Language 102 General Education Red Junior Autumn BIOE 370 BIOO 475 General Education Red Elective	Introductory Ecology ¹ quirement Hours General Ecology ¹ Mammalogy	3 4-5 3 14-15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective	quirement Hours General Ecology ¹ Mammalogy quirement Hours	3 4-5 3 14-15 3 4 3 5 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹	3 4-5 3 14-15 3 4 3 5 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹	3 4-5 3 14-15 3 4 3 5 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Election	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹	3 4-5 3 14-15 3 4 3 5 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹	3 4-5 3 14-15 3 4 3 5 15 4 4 4 3 3
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Election	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement	3 4-5 3 14-15 3 4 3 5 15 4 4 4 3 3
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹	3 4-5 3 14-15 3 4 3 5 15 4 4 4 3 3
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement	3 4-5 3 14-15 3 4 3 5 15 4 4 4 3 3
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective Senior Autumn	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement Hours	3 4-5 3 14-15 3 4 3 5 15 4 4 3 3 1 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective Senior Autumn BIOE 406	Introductory Ecology ¹ quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement Hours Behavior & Evolution ¹	3 4-5 3 14-15 3 4 4 3 5 15 4 4 3 3 1 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective Senior Autumn BIOE 406 BIOB 480	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement Hours Behavior & Evolution ¹ Conservation Genetics ¹	3 4-5 3 14-15 3 4 3 5 15 4 4 3 3 1 1 15
BIOB 272 BIOE 172N Language 102 General Education Rec Junior Autumn BIOE 370 BIOO 475 General Education Rec Elective Spring BIOO 335 BIOO 470 Interdisciplinary Electi General Education Rec Elective Senior Autumn BIOE 406	quirement Hours General Ecology ¹ Mammalogy quirement Hours Rocky Mountain Flora ¹ Ornithology ¹ ive quirement Hours Behavior & Evolution ¹ Conservation Genetics ¹	3 4-5 3 14-15 3 4 4 3 5 15 4 4 3 3 1 15

Spring

BIOE 447	Ecosystem Ecology ¹	3
Interdisciplinary El	lective	3
General Education	Requirement	3
Upper Division Elec	ctive	6
	Hours	15
	Total Hours	121-124

Updated Autumn 2025

Indicates you have a choice of alternative courses for degree completion. See catalog, Degree Works, or your advisor for other options.