BIOLOGY, BA (L&S)

REQUIREMENTS

UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (http://guide.wisc.edu/undergraduate/#requirementsforundergraduatestudytext) section of the *Guide*.

General Education

- Breadth-Humanities/Literature/Arts: 6 credits
- Breadth—Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits
- · Breadth-Social Studies: 3 credits
- · Communication Part A & Part B *
- Ethnic Studies *
- Quantitative Reasoning Part A & Part B *
- * The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

COLLEGE OF LETTERS & SCIENCE DEGREE REQUIREMENTS: BACHELOR OF ARTS (BA)

Students pursuing a bachelor of arts degree in the College of Letters & Science must complete all of the requirements below. The College of Letters & Science allows this major to be paired with either a bachelor of arts or a bachelor of science curriculum.

BACHELOR OF ARTS DEGREE REQUIREMENTS

Mathematics Complete the University General Education Requirements for Quantitative Reasoning A (QR-A) and Quantitative

Reasoning B (QR-B) coursework.

Language

• Complete the fourth unit of a

- Complete the fourth unit of a language other than English: OR
- Complete the third unit of a language and the second unit of an additional language other than English.

L&S Breadth

- 12 credits of Humanities, which must include 6 credits of literature; and
- · 12 credits of Social Science; and
- 12 credits of Natural Science, which must include one 3+ credit Biological Science course and one 3+ credit Physical Science course.

Liberal Arts Complete at least 108 credits. and Science Coursework Depth of Complete at least 60 credits at the intermediate or Intermediate/ advanced level. Advanced work Major Declare and complete at least one major. Total Credits Complete at least 120 credits. UW-Madison · 30 credits in residence, overall; and Experience · 30 credits in residence after the 86th credit. • 2.000 in all coursework at UW-Madison Quality of Work · 2.000 in Intermediate/Advanced level coursework at

NON-L&S STUDENTS PURSUING AN L&S MAJOR

UW-Madison

Non-L&S students who have permission from their school/college to pursue an additional major within L&S only need to fulfill the major requirements. They do not need to complete the L&S Degree Requirements above.

REQUIREMENTS FOR THE MAJOR

Students must complete a minimum of 31 credits of Biological Science courses within the Introductory Biology, Foundation Course, Upper-Level Breadth in the Major, and Additional Lab or Field Research requirements. Unless specifically stated otherwise, courses may not be used to meet multiple requirements of the major.

In addition to the standard Biology major, there is a Named Option in Evolutionary Biology. Students may complete only one Biology major/named option and must declare the named option they are pursuing.

CORE REQUIREMENTS

Mathematics and Statistics

Code	Title	Credits
Complete one of the	following:	4-10
MATH 221	Calculus and Analytic Geometry 1	
MATH 211	Survey of Calculus	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the	following:	3-4
MATH 222	Calculus and Analytic Geometry 2	
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	

BIOCORE 383

BIOCORE 384

BIOCORE 485

BIOLOGY 101 ZOOLOGY/

BIOLOGY 102

Option C:
ZOOLOGY/

Cellular Biology

Animal Biology

Cellular Biology Laboratory

Animal Biology Laboratory

Principles of Physiology

STAT 371	Introductory Applied Statistics for the Life Sciences	
Total Credits		7-14
Chemistry		
Code	Title	Credits
General Chemistry (Complete one of the following):	5-10
CHEM 103	General Chemistry I	
& CHEM 104	and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115	Chemical Principles I	
& CHEM 116	and Chemical Principles II	
Organic Chemistry		•
CHEM 343	Organic Chemistry I	3
CHEM 344	Introductory Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry II	3
Total Credits		13-18
Physics		
Code	Title	Credits
	ics (complete one of the following):	4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester P	hysics (complete one of the following):	4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
Total Credits		8-10
Introductory Bi		
Code	Title	Credits
Select one of the fo	llowing options:	10-13
Option A:		
BIOLOGY/ BOTANY/	Introductory Biology	
ZOOLOGY 151		
BIOLOGY/	Introductory Biology	
BOTANY/		
ZOOLOGY 152		
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	

Internal catalog Americal Chatistics for

BIOLOGY 130	BOTANY/ General Botany	
	•	

Total Credits 10-13

Foundation Course (complete one of the following):

Students may use BIOCORE 381 and BIOCORE 383 toward **both** Introductory Biology **and** Foundation.

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCORE 381 & BIOCORE 383	Evolution, Ecology, and Genetics and Cellular Biology	6
GENETICS 466	Principles of Genetics	3
GENETICS 468	General Genetics 2	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3

UPPER-LEVEL BREADTH IN THE MAJOR

Minimum of 13 credits required and must include **one approved lab course.** Approved lab courses are indicated by footnote. A course taken to meet the Foundation requirement may not also count as Upper-Level Breadth in the Major.

- Complete at least two credits from either category A or B.
- Complete at least two credits from either category C or D.
- Complete at least two credits from an unused category (A, B, C, D or E).

A. Cellular and Subcellular Biology

Code	Title	Credits
AGRONOMY/ HORT 338	Plant Breeding and Biotechnology	3
AGRONOMY/ BOTANY/HORT 339	Plant Biotechnology: Principles and Techniques I ¹	4
AGRONOMY/ BOTANY/HORT 340	Plant Cell Culture and Genetic Engineering	3
AN SCI 336	Animal Growth and Development	3
AN SCI/DY SCI 362	Veterinary Genetics	2
AN SCI 366	Concepts in Genomics	3
BIOCHEM 501	Introduction to Biochemistry	3
BIOCHEM 507	General Biochemistry I	3
BIOCHEM 508	General Biochemistry II	3-4
BIOCHEM/ NUTR SCI 510	Nutritional Biochemistry and Metabolism	3
BIOCHEM/ NUTR SCI 560	Principles of Human Disease and Biotechnology	2
BIOCHEM 570	Computational Modeling of Biological Systems	3
BIOCHEM/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2

BIOCHEM/	Prokaryotic Molecular Biology	3
GENETICS/ MICROBIO 612		
BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology	3
BIOCHEM/ BOTANY 621	Plant Biochemistry	3
BIOCHEM 625	Mechanisms of Action of Vitamins and Minerals	2
BMOLCHEM/ MICROBIO 668	Microbiology at Atomic Resolution	3
BOTANY/ENTOM/ PL PATH 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	3
CRB 640	Fundamentals of Stem Cell and Regenerative Biology	3
CRB 650	Molecular and Cellular Organogenesis	3
CRB/B M E 670	Biology of Heart Disease and Regeneration	3
DERM 601	Skin Biology and Skin Diseases	3
GENETICS 466	Principles of Genetics	3
GENETICS 467	General Genetics 1	3
GENETICS 520	Neurogenetics	3
GENETICS 527	Developmental Genetics for Conservation and Regeneration	3
GENETICS 588	Immunogenetics	3
GENETICS 627	Animal Developmental Genetics	3
GENETICS/ MD GENET 662	Cancer Genetics	3
H ONCOL/ MED PHYS 410	Radiobiology	2-3
MICROBIO 345	Introduction to Disease Biology	3
MICROBIO 470	Microbial Genetics & Molecular Machines	3
MICROBIO/ SOIL SCI 523	Soil Microbiology and Biochemistry	3
MICROBIO 607	Advanced Microbial Genetics	3
MICROBIO 626	Microbial and Cellular Metabolomics	3
M M & I 341	Immunology	3
M M & I/PATH- BIO 528	Immunology	3
NEURODPT/ NTP 610	Cellular and Molecular Neuroscience	4
NEURODPT/ ZOOLOGY 616	Lab Course in Neurobiology and Behavior ¹	4
NEURODPT/ NTP 629	Molecular and Cellular Mechanisms of Memory	3
NTP 675	Special Topics (Stem Cell in Neurobiology)	1-3
NTP 675	Special Topics (Reproductive Neuroendocrinology)	1-3
NTP 675	Special Topics (Molecular Mechanisms of Brain Damage)	1-3

ONCOLOGY/ M M & I/ PL PATH 640	General Virology-Multiplication of Viruses	3
PHM SCI 254	Tiny Earth Genomics - Researching Uncultured Antibiotic-Producing Microbes ¹	3
PHM SCI 558	Laboratory Techniques in Pharmacology and Toxicology ¹	2
ZOOLOGY 370	General Molecular Biology	3
ZOOLOGY 444	Neuronal Cell Biology in Health and Disease	2
ZOOLOGY 470	Introduction to Animal Development	3
ZOOLOGY/ PSYCH 523	Neurobiology	3
ZOOLOGY 555	Laboratory in Developmental Biology ¹	3
ZOOLOGY 570	Cell Biology	3
ZOOLOGY 604	Computer-based Gene and Disease/Disorder Research Lab ¹	2
ZOOLOGY 625	Development of the Nervous System	2
ZOOLOGY 655	Modeling Neurodevelopmental Disease	3

B. Organismal Biology

Code	Title	Credits
AN SCI/DY SCI 373	Animal Physiology	3
AN SCI 377	Integrative Animal Physiology Laboratory ¹	1
AN SCI/DY SCI 434	Reproductive Physiology ¹	3
AN SCI/F&W ECOL/ ZOOLOGY 520	Ornithology	3
AN SCI/F&W ECOL/ ZOOLOGY 521	Birds of Southern Wisconsin ¹	3
ANAT&PHY 335	Physiology ¹	5
ANAT&PHY 337	Human Anatomy	3
ANAT&PHY 338	Human Anatomy Laboratory ¹	2
ANAT&PHY 435	Fundamentals of Human Physiology	5
ANTHRO/ NTP/PSYCH/ ZOOLOGY 619	Biology of Mind	3
BIOCORE 486	Principles of Physiology Laboratory ¹	2
BOTANY 300	Plant Anatomy ¹	4
BOTANY 330	Algae ¹	3
BOTANY/ PL PATH 332	Fungi ¹	4
BOTANY/ PL PATH 333	Biology of the Fungi	2
BOTANY/ F&W ECOL 402	Dendrology: Woody Plant Identification and Ecology ¹	3
BOTANY 500	Plant Physiology ¹	3-4
CS&D 503	Neural Mechanisms of Speech, Hearing and Language	3
DY SCI 378	Lactation Physiology ¹	3

ENITOM/	Introduction to Fotomology 1	1	A C D O N O N A V /	Factorical and learnests on	1
ENTOM/ ZOOLOGY 302	Introduction to Entomology ¹	4	AGRONOMY/ ENTOM/F&W ECOL/	Ecotoxicology: Impacts on Individuals	I
ENTOM 321	Physiology of Insects	3	M&ENVTOX 633	a.waase	
ENTOM 331	Taxonomy of Mature Insects ¹	4	AGRONOMY/	Ecotoxicology: Impacts on	1
F&W ECOL 401	Physiological Animal Ecology	3		Populations, Communities and	
GENETICS 545	Genetics Laboratory ¹	2	M&ENVTOX 634	Ecosystems	
GENETICS/	Human Genetics	3	AN SCI 420	Microbiomes of Animal Systems	3
MD GENET 565			BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
GEOSCI/	Invertebrate Paleontology	3	BOTANY/	The Vegetation of Wisconsin ¹	4
ZOOLOGY 542	1		F&W ECOL 455	The Vegetation of Wisconsin	-1
KINES 314	Physiology of Exercise 1	4	BOTANY/	General Ecology ¹	4
MICROBIO 303	Biology of Microorganisms	3	F&W ECOL/		
MICROBIO 304	Biology of Microorganisms Laboratory ¹	2	ZOOLOGY 460		
MICROBIO 330	Host-Parasite Interactions	3	BOTANY/ENTOM/	Plant-Insect Interactions	3
MICROBIO 526	Physiology of Microorganisms	3	ZOOLOGY 473	C D: 1	2
M M & I 301	Pathogenic Bacteriology	2	F&W ECOL/	Conservation Biology	3
M M & I/ENTOM/	Parasitology	3	ZOOLOGY 651		
PATH-BIO/	3,		ENTOM 450	Basic and Applied Insect Ecology	3
ZOOLOGY 350			ENTOM 451	Basic and Applied Insect Ecology	1
NTP/NEURODPT/	Systems Neuroscience	4		Laboratory	
PSYCH 611			ENTOM 490	Biodiversity and Global Change	3
	Neuroethology Seminar	2	ENVIR ST/	Wetlands Ecology	3
NTP 675	Special Topics (Functional Brain Imaging of Cognitive Disorders)	1-3	LAND ARC 361	D:	2
NUTR SCI 431	Nutrition in the Life Span	3	F&W ECOL 448	Disturbance Ecology	3
NUTR SCI 631	Clinical Nutrition I	3	F&W ECOL 550 F&W ECOL/	Forest Ecology	3
ONCOLOGY 401	Introduction to Experimental	2	LAND ARC/	Principles of Landscape Ecology	۷
	Oncology		ZOOLOGY 565		
PATH 404	Pathophysiologic Principles of	3	F&W ECOL/	Climate Change Ecology	3
	Human Diseases		ZOOLOGY 660		
PL PATH 558	Biology of Plant Pathogens	3	GENETICS 528	Banking Animal Biodiversity:	1
PSYCH 406	Psychology of Perception	3-4		International Field Study in Costa Rica	
PSYCH 414	Cognitive Psychology	3	MICROBIO/AN SCI/	The Microbiome of Plants, Animals,	3
PSYCH 454	Behavioral Neuroscience	3	BOTANY 335	and Humans	J
PSYCH 606	Hormones, Brain, and Behavior Hormones and Behavior		PL PATH 300	Introduction to Plant Pathology ¹	4
PSYCH 606 ZOOLOGY 303	Aquatic Invertebrate Biology	3	PL PATH 315	Plant Microbiomes ¹	4
ZOOLOGY 430	Comparative Anatomy of	5	ZOOLOGY 304	Marine Biology	2
2001001 430	Vertebrates ¹	5	ZOOLOGY/	Limnology-Conservation of Aquatic	2
ZOOLOGY 603	Endocrinology	3-4	ENVIR ST 315	Resources	
ZOOLOGY 611	Comparative and Evolutionary	3	ZOOLOGY 316	Laboratory for Limnology-	2-3
	Physiology		7001007330	Conservation of Aquatic Resources	2
ZOOLOGY 612	Comparative Physiology Laboratory	2	ZOOLOGY 320	Field Marine Biology	3
			ZOOLOGY 504 ZOOLOGY/	Modeling Animal Landscapes Ecology of Fishes	3-5 3
C. Ecology			ENVIR ST 510	ecology of Fishes	3
Code	Title	Credits	ZOOLOGY/	Ecology of Fishes Lab ¹	2
AGRONOMY/	Grassland Ecology	3	ENVIR ST 511	<u> </u>	
BOTANY/			D Evolution and	Systematics	
SOIL SCI 370	Factorials and TL Classical		D. Evolution and Code	Title	Credits
AGRONOMY/ ENTOM/F&W ECOL/	Ecotoxicology: The Chemical Players		ANTHRO 302	Hominoid Evolution	3
M&ENVTOX 632			ANTHRO 304	Heredity, Environment and Human	3
				Populations	

ANTHRO/BOTANY/ ZOOLOGY 410	Evolutionary Biology	3
ANTHRO 411	The Evolution of the Genus, Homo	3
ANTHRO 458	Primate Behavioral Ecology	3
ANTHRO 603	Seminar in Evolutionary Theory	3
BIOLOGY/ GENETICS 522	Communicating Evolutionary Biology	2-3
BOTANY 305	Plant Morphology and Evolution ¹	4
BOTANY 400	Plant Systematics ¹	4
BOTANY 401	Vascular Flora of Wisconsin ¹	4
BOTANY 422	Plant Geography	3
BOTANY/ PL PATH 563	Phylogenetic Analysis of Molecular Data	3
ENTOM 432	Taxonomy and Bionomics of Immature Insects ¹	4
ENTOM/GENETICS/ ZOOLOGY 624	Molecular Ecology	3
ENVIR ST/ F&W ECOL/ ZOOLOGY 360	Extinction of Species	3
GENETICS 468	General Genetics 2	3
GEOSCI/ ZOOLOGY 541	Paleobiology	3
MICROBIO 450	Diversity, Ecology and Evolution of Microorganisms	3
MICROBIO 520	Planetary Microbiology: What Life Here Tells Us About Life Out There	3
MICROBIO 525	Field Studies of Planetary Microbiology and Life in the Universe ¹	3
PSYCH 449	Animal Behavior	3
PSYCH 450	Primate Psychology: Insights into Human Behavior	3
ZOOLOGY 300	Invertebrate Biology and Evolution	3
ZOOLOGY 301	Invertebrate Biology and Evolution Lab ¹	2
ZOOLOGY 415	Genetics of Human History	3
ZOOLOGY 425	Behavioral Ecology	3
E Applied Pieles	w. Agriculture and Natural Poseur	

	E. Applied Biology, Agriculture and Natural Resources			
	Code	Title	Credits	
	A A E/AGRONOMY/ NUTR SCI 350	World Hunger and Malnutrition	3	
	AGRONOMY 300	Cropping Systems	3	
	AGRONOMY 302	Forage Management and Utilization	3	
	AGRONOMY/ HORT 360	Genetically Modified Crops: Science, Regulation & Controversy	2	
	AGRONOMY 377	Global Food Production and Health	3	
	AGRONOMY/ DY SCI 471	Food Production Systems and Sustainability	3	
	AGRONOMY/ HORT 501	Principles of Plant Breeding	3	
	AGRONOMY/ ATM OCN/ SOIL SCI 532	Environmental Biophysics	3	

AMER IND/ ANTHRO/ BOTANY 474	Ethnobotany	3-4
AN SCI/DY SCI/ NUTR SCI 311	Comparative Animal Nutrition	3
AN SCI/DY SCI 320	Animal Health and Disease	3
AN SCI/DY SCI 361	Introduction to Animal and Veterinary Genetics	2
AN SCI/DY SCI 363	Principles of Animal Breeding	2
AN SCI 503	Avian Physiology ¹	3
AN SCI 512	Management for Avian Health ¹	3
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology ¹	3
ENTOM/ F&W ECOL 500	Insects in Forest Ecosystem Function and Management	2
ENVIR ST/ POP HLTH 471	Introduction to Environmental Health	3
ENVIR ST/ POP HLTH 502	Air Pollution and Human Health	3
ENVIR ST/ LAND ARC 581	Prescribed Fire: Ecology and Implementation ¹	3
F&W ECOL 306	Terrestrial Vertebrates: Life History and Ecology ¹	4
F&W ECOL/	Human/Animal Relationships:	3
ZOOLOGY 335	Biological and Philosophical Issues	
F&W ECOL 410	Principles of Silviculture	3
F&W ECOL 415	Tree Physiology	3
F&W ECOL 458	Environmental Data Science	3
F&W ECOL/ SURG SCI 548	Diseases of Wildlife	3
F&W ECOL 561	Wildlife Management Techniques ¹	3
FOOD SCI/ MICROBIO 324	Food Microbiology Laboratory ¹	2
FOOD SCI/ MICROBIO 325	Food Microbiology	3
FOOD SCI 532	Integrated Food Manufacturing ¹	4
GENETICS 548	The Genomic Revolution	3
GENETICS/ HORT 550	Molecular Approaches for Potential Crop Improvement	3
HORT/ LAND ARC 263	Landscape Plants I ¹	3
HORT 370	World Vegetable Crops	3
HORT/ AGRONOMY 376	Tropical Horticultural Systems	2
HORT 378	Tropical Horticultural Systems International Field Study	2
M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2

MED PHYS/NTP 651	Methods for Neuroimaging Research	3
MICROBIO 357	General Bioinformatics for Microbiologists	3
MICROBIO/ SOIL SCI 425	Environmental Microbiology	3
M M & I 554	Emerging Infectious Diseases and Bioterrorism	2
NUTR SCI 332	Human Nutritional Needs	3
PL PATH/ SOIL SCI 323	Soil Biology	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 321	Soils and Environmental Chemistry	3

ADDITIONAL LAB OR FIELD RESEARCH

In addition to the Lab requirement, complete one of the following requirements:

- Complete one additional lab course and at least two credits from categories A–E in the Upper-Level Breadth in the Major course lists, or
- Complete at least two credits of directed study in a biological science discipline, or
- $\bullet\,$ Complete a two-semester thesis in biological science. 2

Approved Directed Study Courses

To have Directed Study count for the Additional Lab/Field Research requirement, students must first complete an Introductory Biology sequence.

Code	Title	Credits
AGRONOMY 699	Special Problems	
ANATOMY 699	Independent Study	
ANESTHES 699	Independent Study	
AN SCI 699	Special Problems	
BIOCHEM 699	Special Problems	
BIOLOGY 699	Directed Studies	
BOTANY 699	Directed Study	
BMOLCHEM 699	Special Research Problems	
COMP BIO 699	Directed Study	
CRB 699	Independent Study	
DY SCI 699	Special Problems	
ENTOM 699	Special Problems	
FAM MED 699	Directed Study	
FOOD SCI 699	Special Problems	
F&W ECOL 699	Special Problems	
GENETICS 699	Special Problems	
H ONCOL 699	Independent Study in Human Cancer Biology	
HORT 699	Special Problems	
M&ENVTOX 699	Special Problems	
MEDICINE 699	Independent Study	
MED SC-V 699	Directed Study	
MICROBIO 699	Special Problems	
M M & I 699	Directed Study	

MOL BIOL 699	Directed Studies in Molecular Biology
NEURODPT 699	Directed Study
NEUROL 699	Directed Research in Neurology
NEURSURG 699	Neurosurgery: Directed in Study in Research
NURSING 699	Directed Study in Nursing
NUTR SCI 699	Special Problems
OBS&GYN 699	Directed Study
ONCOLOGY 699	Special Research Problems
OPHTHALM 699	Directed Study
PATH 699	Independent Study
PATH-BIO 699	Directed Study
PEDIAT 699	Independent Study
PHM SCI 699	Advanced Independent Study
PHMCOL-M 699	Independent Study
PHYSIOL 699	Independent Work
PL PATH 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

Credits

Approved Thesis Sequences

Title

Code

0	Jue	THE	Cicuits
		Senior Honors Thesis 2and Senior Honors Thesis	
	AN SCI 681 & AN SCI 682	Senior Honor Thesis and Senior Honors Thesis	
	AN SCI 691 & AN SCI 692	Thesis and Thesis	
	BIOCHEM 681 & BIOCHEM 682	Senior Honors Thesis and Senior Honors Thesis	
	BIOCHEM 691 & BIOCHEM 692	Senior Thesis and Senior Thesis	
	BIOLOGY 681 & BIOLOGY 682	Senior Honors Thesis and Senior Honors Thesis	
	BIOLOGY 691 & BIOLOGY 692	Senior Thesis and Senior Thesis	
	BOTANY 681 & BOTANY 682	Senior Honors Thesis and Senior Honors Thesis	
	BOTANY 691 & BOTANY 692	Senior Thesis and Senior Thesis	
	DY SCI 681 & DY SCI 682	Senior Honors Thesis and Senior Honors Thesis	
	ENTOM 681 & ENTOM 682	Senior Honors Thesis and Senior Honors Thesis	
	FOOD SCI 681 & FOOD SCI 682	Senior Honors Thesis and Senior Honors Thesis	
	F&W ECOL 681 & F&W ECOL 682	Senior Honors Thesis and Senior Honors Thesis	
	F&W ECOL 691 & F&W ECOL 692	Senior Thesis and Senior Thesis	
	GENETICS 681 & GENETICS 682	Senior Honors Thesis and Senior Honors Thesis	

	H ONCOL 681 & H ONCOL 682	Senior Honors Thesis in Human Oncology 1 and Senior Honors Thesis in Human Oncology 2
	H ONCOL 691 & H ONCOL 692	Senior Thesis in Human Oncology 1 and Senior Thesis in Human Oncology 2
	HORT 681 & HORT 682	Senior Honors Thesis and Senior Honors Thesis
	M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
	MICROBIO 691	Senior Honors Thesis and Senior Honors Thesis Senior Thesis and Senior Thesis
	MOL BIOL 681 & MOL BIOL 682	Senior Honors Thesis and Senior Honors Thesis
	MOL BIOL 691 & MOL BIOL 692	Senior Thesis and Senior Thesis
	NUTR SCI 681 & NUTR SCI 682	Senior Honors Thesis and Senior Honors Thesis
	NUTR SCI 691 & NUTR SCI 692	Senior Thesis-Nutrition and Senior Thesis
	PATH-BIO 681 & PATH-BIO 682	Senior Honors Thesis I and Senior Honors Thesis II
	PL PATH 681 & PL PATH 682	Senior Honors Thesis and Senior Honors Thesis
	SOIL SCI 681 & SOIL SCI 682	Senior Honors Thesis and Senior Honors Thesis
	ZOOLOGY 681 & ZOOLOGY 682	Senior Honors Thesis and Senior Honors Thesis
	ZOOLOGY 691 & ZOOLOGY 692	Senior Thesis and Senior Thesis

BIOLOGY NAMED OPTION

Instead of completing the requirements above, students may choose to select the named option below.

View as listView as grid

· BIOLOGY: EVOLUTIONARY BIOLOGY (HTTP://GUIDE.WISC.EDU/ UNDERGRADUATE/LETTERS-SCIENCE/ INTEGRATIVE-BIOLOGY/BIOLOGY-BS/ BIOLOGY-EVOLUTIONARY-BIOLOGY-BS/)

RESIDENCE & QUALITY OF WORK

- · 2.000 GPA in all BIOLOGY and major courses
- 2.000 GPA on at least 15 credits of Upper-Level work in the major, in Residence²
- 15 credits in the major, taken on the UW-Madison campus

HONORS IN THE MAJOR

Students may declare Honors in the Biology major with permission of the major advisor.

HONORS IN THE MAJOR REQUIREMENTS

To earn Honors in the Major, students must satisfy both the requirements for the major and the following additional requirements:

- Earn a 3.300 University GPA
- Earn a 3.300 GPA in the major
- · Complete 13 credits from Foundation and Upper-Level Breadth in the Major requirements, taken for Honors
- · Complete an approved two-semester Senior Honors Thesis for a total of 6 credits

FOOTNOTES

- Course also approved for lab credit
- ² Foundation and Upper-Level Breadth in the Major are considered Upper-Level for purposes of this requirement.

UNIVERSITY DEGREE REQUIREMENTS

Total Degree To receive a bachelor's degree from UW-Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

Residency

Degree candidates are required to earn a minimum of 30 credits in residence at UW-Madison. "In residence" means on the UW-Madison campus with an undergraduate degree classification. "In residence" credit also includes UW-Madison courses offered in distance or online formats and credits earned in UW-Madison Study Abroad/Study Away programs.

Quality of Work

Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.