

BIOLOGY, BS (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 (<https://guide.wisc.edu/undergraduate/#requirementsforundergraduatestudytext>) section of the Guide.

General Education	<ul style="list-style-type: none"> • 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 *
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* 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 SCIENCE (BS)

Students pursuing a Bachelor of Science 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 the Bachelor of Arts or the Bachelor of Science degree requirements.

BACHELOR OF SCIENCE DEGREE REQUIREMENTS

Mathematics Complete two courses of 3+ credits at the Intermediate or Advanced level in MATH, COMP SCI, or STAT subjects. A maximum of one course in each of COMP SCI and STAT subjects counts toward this requirement.

Language Complete the third unit of a language other than English.

L&S Breadth Complete:

- 12 credits of Humanities, which must include at least 6 credits of Literature; and
- 12 credits of Social Science; and
- 12 credits of Natural Science, which must include 6 credits of Biological Science and 6 credits of Physical Science.

Liberal Arts and Science Coursework	Complete at least 108 credits.
Depth of Intermediate/Advanced Coursework	Complete at least 60 credits at the Intermediate or Advanced level.
Major	Declare and complete at least one major.
Total Credits	Complete at least 120 credits.
UW–Madison Experience	Complete both: <ul style="list-style-type: none"> • 30 credits in residence, overall, and • 30 credits in residence after the 86th credit.
Quality of Work	<ul style="list-style-type: none"> • 2.000 in all coursework at UW–Madison • 2.000 in Intermediate/Advanced level coursework at UW–Madison

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

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 1	
MATH 171 & MATH 217	Calculus with Algebra and Trigonometry I and Calculus with Algebra and Trigonometry II	
Complete one of the following:		3–4
STAT 240	Data Science Modeling I	
STAT 301	Introduction to Statistical Methods	
STAT 324	Introduction to Statistics for Science and Engineering	

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 & CHEM 104	General Chemistry I and General Chemistry II	
CHEM 109	Advanced General Chemistry	
CHEM 115 & CHEM 116	Chemical Principles I 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
First Semester Physics (complete one of the following):		4-5
PHYSICS 103	General Physics	
PHYSICS 201	General Physics	
PHYSICS 207	General Physics	
Second Semester Physics (complete one of the following):		4-5
PHYSICS 104	General Physics	
PHYSICS 202	General Physics	
PHYSICS 208	General Physics	
Total Credits		8-10

Introductory Biology

Code	Title	Credits
Select one of the following options:		10-13
Option A:		
BIOLOGY/ BOTANY/ ZOOLOGY 151	Introductory Biology	
BIOLOGY/ BOTANY/ ZOOLOGY 152	Introductory Biology	
Option B:		
BIOCORE 381	Evolution, Ecology, and Genetics	
BIOCORE 382	Evolution, Ecology, and Genetics Laboratory	
BIOCORE 383	Cellular Biology	
BIOCORE 384	Cellular Biology Laboratory	
BIOCORE 485	Principles of Physiology	
Option C:		
ZOOLOGY/ BIOLOGY 101	Animal Biology	
ZOOLOGY/ BIOLOGY 102	Animal Biology Laboratory	

BOTANY/ BIOLOGY 130	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
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
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/ M M & I 575	Biology of Viruses	2
BIOCHEM 601	Protein and Enzyme Structure and Function	2
BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology	3
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
BIOCHEM/ GENETICS 631	Plant Genetics and Development	3

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/B M E 670	Biology of Heart Disease and Regeneration	3
DERM 601	Skin Biology and Skin Diseases	3
DERM 602	Advances in Skin Biology and Skin Diseases	2
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 605	Clinical Cases in Medical Genetics	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 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 629	Molecular and Cellular Mechanisms of Memory	3
ONCOLOGY/ M M & I/ PL PATH 640	General Virology-Multiplication of Viruses	3
PLANTSCI 340	Plant Genome Engineering and Editing	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 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 ¹	5
ANTHRO/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
ENTOM/ ZOOLOGY 302	Introduction to Entomology ¹	4
ENTOM 321	Physiology of Insects	3
ENTOM 331	Taxonomy of Mature Insects ¹	4
F&W ECOL 401		3
GENETICS 545	Genetics Laboratory ¹	2
GENETICS/ MD GENET 565	Human Genetics	3
GEOSCI/ ZOOLOGY 542	Invertebrate Paleontology	3
KINES 314	Physiology of Exercise ¹	4
MICROBIO 303	Biology of Microorganisms	3
MICROBIO 304	Biology of Microorganisms Laboratory ¹	2
MICROBIO 526	Physiology of Microorganisms	3
M M & I 301	Pathogenic Bacteriology	2
M M & I/ENTOM/ PATH-BIO/ ZOOLOGY 350	Parasitology	3

NTP/NEURODPT/ PSYCH 611	Systems Neuroscience	4
NUTR SCI 431	Nutrition in the Life Span	3
NUTR SCI 631	Clinical Nutrition I	3
ONCOLOGY 401	Introduction to Experimental Oncology	2
PATH 404	Pathophysiologic Principles of Human Diseases	3
PSYCH 406	Psychology of Perception	3-4
PSYCH 414	Cognitive Psychology	3
PSYCH 454	Behavioral Neuroscience	3
PSYCH 513	Hormones, Brain, and Behavior	4
ZOOLOGY 303	Aquatic Invertebrate Biology	3
ZOOLOGY 430	Comparative Anatomy of Vertebrates ¹	5
ZOOLOGY 603	Endocrinology	3-4
ZOOLOGY 611	Comparative and Evolutionary Physiology	3
ZOOLOGY 612	Comparative Physiology Laboratory ¹	2
ZOOLOGY 620	Neuroethology Seminar	2

C. Ecology

Code	Title	Credits
AGROECOL 370	Grassland Ecology	3
AN SCI 420	Microbiomes of Animal Systems	3
BOTANY/ ZOOLOGY 450	Midwestern Ecological Issues: A Case Study Approach	2
BOTANY 455	The Vegetation of Wisconsin ¹	4
BOTANY/ F&W ECOL/ ZOOLOGY 460	General Ecology ¹	4
BOTANY/ENTOM/ ZOOLOGY 473	Plant-Insect Interactions	3
BOTANY/ENVIR ST/ F&W ECOL/ ZOOLOGY 516	Conservation Biology	3
ENTOM 344	From Flowers to Food: Pollinator Ecology and Conservation	3
ENTOM 450	Basic and Applied Insect Ecology	3
ENTOM 490	Biodiversity and Global Change	3
ENVIR ST/ LAND ARC 361	Wetlands Ecology	3
F&W ECOL 448	Disturbance Ecology	3
F&W ECOL 550	Forest Ecology	3
F&W ECOL 551	Forest Ecology Lab	1
F&W ECOL/ LAND ARC/ ZOOLOGY 565	Principles of Landscape Ecology	2
F&W ECOL/ ZOOLOGY 660	Climate Change Ecology	3
GENETICS 528	Banking Animal Biodiversity: International Field Study in Costa Rica	1
MICROBIO/AN SCI/ BOTANY 335	The Microbiome of Plants, Animals, and Humans	3

PL PATH 300	Introduction to Plant Pathology ¹	4
PL PATH 315	Plant Microbiomes ¹	4
ZOOLOGY 304	Marine Biology	2
ZOOLOGY/ ENVIR ST 315	Limnology-Conservation of Aquatic Resources	2
ZOOLOGY 316	Laboratory for Limnology- Conservation of Aquatic Resources ¹	2-3
ZOOLOGY 320	Field Marine Biology ¹	3
ZOOLOGY/ ENVIR ST 510	Ecology of Fishes	3
ZOOLOGY/ ENVIR ST 511	Ecology of Fishes Lab ¹	2

D. Evolution and Systematics

Code	Title	Credits
ANTHRO 302	Hominoid Evolution	3
ANTHRO 304	Heredity, Environment and Human Populations	3
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
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
PATH-BIO 307	Superbugs, Sex, & Drugs: Why Modern Medicine Needs Evolutionary Biology	2
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 Biology, Agriculture and Natural Resources

Code	Title	Credits
A A E/ NUTR SCI 350	World Hunger and Malnutrition	3
AGROECOL 377	Global Food Production and Health	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
BIOCORE 587	Biological Interactions	3
BOTANY 403	Field Collections and Identification	1-4
DY SCI 471	Food Production Systems and Sustainability	3
ENTOM 351	Principles of Economic Entomology	3
ENTOM/ ZOOLOGY 371	Medical Entomology: Biology of Vector and Vector-borne Diseases (4th credit meets lab requirement) ¹	3-4
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 335		3
F&W ECOL 410	Silviculture: Applied Forest Ecology	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
GENETICS 548	The Genomic Revolution	3
M&ENVTOX/ ONCOLOGY/ PHM SCI/PHMCOL- M/POP HLTH 625	Toxicology I	3
MED PHYS/ PHYSICS 265	Introduction to Medical Physics	2
MED PHYS 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
PLANTSCI/ LAND ARC 263	Woody Landscape Plant Identification, Culture, and Use	4
PLANTSCI 300	Cropping Systems	3
PLANTSCI 302	Forage Management and Utilization	3
PLANTSCI 338	Plant Breeding and Biotechnology	3
PLANTSCI 360	Genetically Modified Crops: Science, Regulation & Controversy	2
PLANTSCI 370	World Vegetable Crops	3
PLANTSCI 376	Tropical Horticultural Systems	2
PLANTSCI 378	Tropical Horticultural Systems International Field Study	2
PLANTSCI 501	Principles of Plant Breeding	3
PLANTSCI/ ATM OCN 532	Environmental Biophysics	3
PLANTSCI 550	Molecular Approaches for Crop Improvement	3
PL PATH 517	Plant Disease Resistance	2-3
SOIL SCI 323	Soil Biology	3
SOIL SCI 621	Soil 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
- 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
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
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
PLANTSCI 699	Special Problems
RHAB MED 699	Independent Study
SOIL SCI 699	Special Problems
SURG SCI 699	Directed Study
SURGERY 699	Independent Study

Approved Thesis Sequences

Code	Title	Credits
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
M M & I 691 & M M & I 692	First Semester Senior Thesis and Second Semester Senior Thesis
MICROBIO 681 & MICROBIO 682	Senior Honors Thesis and Senior Honors Thesis
MICROBIO 691 & MICROBIO 692	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
PLANTSCI 681 & PLANTSCI 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.

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- **BIOLOGY: EVOLUTIONARY BIOLOGY**
([HTTPS://GUIDE.WISC.EDU/
UNDERGRADUATE/LETTERS-SCIENCE/
INTEGRATIVE-BIOLOGY/BIOLOGY-BS/
BIOLOGY-EVOLUTIONARY-BIOLOGY-BS/](https://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

¹ 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.