

BIOLOGICAL SCIENCE B.S.

All students must meet the University Requirements. (<http://catalogue.uvm.edu/undergraduate/academicinfo/degreerequirements/>)

All students must meet the College Requirements. (<http://catalogue.uvm.edu/undergraduate/artsandsciences/#requirements>)

MAJOR REQUIREMENTS

The Biological Science B.S. requires satisfactory completion of:

CORE REQUIREMENTS:		
1 of the 2 following introductory biology options:		4-8
BCOR 011 & BCOR 012	Exploring Biology and Exploring Biology	
BCOR 021	Accelerated Biology	
BCOR 101	Genetics	3
BCOR 102	SU:Ecology and Evolution	4
BCOR 103	Molecular and Cell Biology	4
ANCILLARY REQUIREMENTS:		
CHEM 031	General Chemistry 1	4
CHEM 032	General Chemistry 2	4
CHEM 141	Organic Chemistry 1	4
CHEM 142	Organic Chemistry 2	4
MATH 019	QR: Fundamentals of Calculus I	3-4
or MATH 021	QR: Calculus I	
MATH 020	QR: Fundamentals of Calculus II	3-4
or MATH 022	QR: Calculus II	
STAT 141	QR: Basic Statistical Methods I	3
or STAT 211	QR: Statistical Methods I	
1 of the following 2 Physics options:		8-10
Option A		
PHYS 011 & PHYS 021	Elementary Physics and Introductory Lab I	
PHYS 012 & PHYS 022	Elementary Physics and Introductory Lab II	
Option B		
PHYS 051	Fundamentals of Physics I	
PHYS 152	Fundamentals of Physics II	

ADVANCED ELECTIVES:	26
In consultation with their academic advisor, students will design a course of study that includes an additional 26 credits of advanced life science electives chosen from the following list of courses. No more than 8 credits at the 100-level may apply toward these electives, and not exceeding 3 100-level courses. With an advisor's permission, a biologically relevant 300-level course may be applied. Up to 6 credits of undergraduate research and/or thesis credits in any biological discipline may be applied to the advanced electives; only 3 of these credits taken at the 100-level will count toward the major, and these will be counted in the 8 credits allowed at the 100-level.	
ANTH 242, ASCI 111, ASCI 118, ASCI 120, ASCI 143, ASCI 147, ASCI 168, ASCI 215, ASCI 216, ASCI 220, ASCI 242, ASCI 272, ASCI 277, BCOR 189, BCOR 195, BCOR 197, BCOR 198, BCOR 298, BHSC 242, BHSC 244, BHSC 281, BHSC 282, BIOC 191, BIOC 192, BIOC 201, BIOC 205, BIOC 206, BIOC 207, BIOC 263, BIOC 275, BIOC 292, BIOC 293, BIOC 294, BIOC 295, BIOC 296, BIOL 119, BIOL 188, BIOL 189, BIOL 195, BIOL 196, BIOL 198, BIOL 199, BIOL 205, BIOL 209, BIOL 210, BIOL 217, BIOL 219, BIOL 223, BIOL 242, BIOL 254, BIOL 255, BIOL 256, BIOL 261, BIOL 264, BIOL 265, BIOL 266, BIOL 269, BIOL 271, BIOL 276, BIOL 277, BIOL 280, BIOL 292, BIOL 295, BIOL 296, BIOL 298, BIOL 381 (when the title is Computational Biology), CHEM 205, CHEM 206, CHEM 207, CSD 281, ENSC 148, ENSC 160, ENSC 201, ENSC 274, FOR 223, FOR 228, HON 208, HON 209, HON 210, HON 211, MATH 268, MLS 231, MLS 255, MMG 101, MMG 104, MMG 106, MMG 192, MMG 193, MMG 195, MMG 197, MMG 198, MMG 201, MMG 205, MMG 206, MMG 207, MMG 211, MMG 220, MMG 222, MMG 223, MMG 225, MMG 230, MMG 231, MMG 232, MMG 233, MMG 235, MMG 292, MMG 293, MMG 295, MMG 296, MMG 297, MMG 298, NFS 143, NFS 163, NFS 203, NFS 213, NFS 243, NR 220, NR 228, NR 250, NR 268, NR 280, NSCI 111, NSCI 112, NSCI 222, NSCI 225, NSCI 255, NSCI 270, PBIO 104, PBIO 108, PBIO 109, PBIO 117, PBIO 133, PBIO 151, PBIO 177, PBIO 192, PBIO 195, PBIO 198, PBIO 209, PBIO 223, PBIO 232, PBIO 241, PBIO 261, PBIO 275, PBIO 292, PBIO 294, PBIO 295, PBIO 298, PHRM 200, PHRM 201, PHRM 240, PHRM 272, PHRM 290, PSS 106, PSS 112, PSS 117, PSS 138, PSS 143, PSS 154, PSS 156, PSS 212, PSS 232, PSS 268, PSS 295 (when the title is Eco Frontiers in Agroecology), PSYS 115, PSYS 215, PSYS 216, PSYS 218, PSYS 220, STAT 200, WFB 130, WFB 131, WFB 141, WFB 150, WFB 161, WFB 174, WFB 195, WFB 224, WFB 232, WFB 261, WFB 275, WFB 283	
Total Credits	74-82

Students are advised to complete 12 credits of advanced electives from courses with a quantitative component, 3 credits that stress oral communication and 3 credits that stress written communication. See the advanced electives list on the Biological Science B.S. website for these designations as well as course titles.

In their second year, all College of Arts and Sciences (CAS) Biological Science majors are expected to meet with an academic advisor to map a plan of study for completing their higher-level courses. CAS students majoring in the B.S. program in Biological Science are required to take at least 84 credits of course work in

the College of Arts and Sciences. This does not apply to College of Agriculture and Life Sciences (CALS) students.