

## BIOLOGICAL SCIENCE B.S.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

### MAJOR REQUIREMENTS

The Biological Science B.S. core curriculum requires satisfactory completion:

Requirement Description		Credits
CORE REQUIREMENTS:		
INTRODUCTORY BIOLOGY. Choose 1 of the following options:		8
Option A:		
BCOR 1400 & BCOR 1450	Exploring Biology 1 and Exploring Biology 2	
Option B:		
BIOL 1000 & BIOL 1005	AP Biology 1 and AP Biology 2	
Option C:		
BIOL 1000 & BCOR 1425	AP Biology 1 and Accelerated Biology	
BCOR 2300	Genetics	3
BCOR 2100	Ecology and Evolution	4
BCOR 2500	Molecular & Cell Biology w/lab	4
ANCILLARY REQUIREMENTS:		
CHEM 1400	General Chemistry 1	4
CHEM 1450	General Chemistry 2	4
CHEM 2580	Organic Chemistry 1	4
CHEM 2585	Organic Chemistry 2	4
MATH 1212	Fundamentals of Calculus I	3-4
or MATH 1234	Calculus I	
MATH 1224	Fundamentals of Calculus II	3-4
or MATH 1248	Calculus II	
or MATH 1242	Transitional Calculus	
STAT 1410	Basic Statistical Methods 1	3
or STAT 2430	Statistics for Engineering	
1 of the following 2 Physics options:		8
OPTION A		

PHYS 1400	Elementary Physics I	
PHYS 1450	Elementary Physics II	
OPTION B		
PHYS 1600	Fundamentals of Physics I	
PHYS 1650	Fundamentals of Physics II	
ADVANCED ELECTIVES:		26
<p>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 2000-level may apply toward these electives, and not exceeding 3 2000-level courses. With an advisor's permission, a biologically relevant graduate-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 2000-level will count toward the major, and these will be counted in the 8 credits allowed at the 2000-level.</p> <p>ALE 2060, ALE 2120, ALE 2170, ALE 2380, ALE 2430, ALE 2540, ALE 2560, ALE 3120, ALE 3250, ALE 3320, ALE 3680, ASCI 2110, ASCI 2120, ASCI 2180, ASCI 2600, ASCI 2700, ASCI 3040, ASCI 3080, ASCI 3150, ASCI 3180, ASCI 3200, ASCI 3600, BCOR 2995, BCOR 3000, BCOR 3990, BCOR 3995, BCOR 4990, BCOR 4994, BHSC 3420, BHSC 3440, BHSC 3810, BHSC 3820, BIOC 2995, BIOC 3001, BIOC 3003, BIOC 3005, BIOC 3006, BIOC 3007, BIOC 3030, BIOC 3063, BIOC 3075, BIOC 3991, BIOC 3994, BIOC 3995, BIOL 2100, BIOL 2105, BIOL 2300, BIOL 2990, BIOL 2995, BIOL 3100, BIOL 3105, BIOL 3130, BIOL 3160, BIOL 3165, BIOL 3200, BIOL 3400, BIOL 3500, BIOL 3505, BIOL 3560, BIOL 3565, BIOL 3600, BIOL 3990, BIOL 3993, BIOL 3995, BIOL 4070, BIOL 4075, BIOL 4080, BIOL 4245, BIOL 4260, BIOL 4400, BIOL 4405, BIOL 4410, BIOL 4630, BIOL 4635, BIOL 4990, BIOL 4996, BIOL 5990, BIOL 6100, BME 3340, CSD 3810, ENSC 2480, ENSC 2490, ENSC 4010, ENSC 4740, FOR 2570, FOR 3230, FOR 3350, GEOG 2250, GEOG 3250, MLS 3200, MLS 3300, MMG 2010, MMG 2040, MMG 2060, MMG 2993, MMG 2994, MMG 2995, MMG 3010, MMG 3050, MMG 3060, MMG 3070, MMG 3110, MMG 3200, MMG 3210, MMG 3220, MMG 3230, MMG 3250, MMG 3270, MMG 3300, MMG 3310, MMG 3320, MMG 3330, MMG 3350, MMG 3990, MMG 3993, MMG 3994, MMG 3995, MMG 4990, MMG 5990, NFS 2114, NFS 2143, NFS 2153, NFS 2163, NFS 2195, NFS 2196, NFS 3203, NFS 3204, NFS 3243, NFS 3254, NR 4680, NSCI 2100, NSCI 2105, NSCI 3220, NSCI 3230, NSCI 3250, NSCI 3500, NSCI 4500, PATH 2010, PBIO 2040, PBIO 2080, PBIO 2090, PBIO 2170, PBIO 2330, PBIO 2440, PBIO 2510, PBIO 2770, PBIO 2890, PBIO 2990, PBIO 2993, PBIO 2994, PBIO 2995, PBIO 3090, PBIO 3220, PBIO 3320, PBIO 3410, PBIO 3440, PBIO 3750, PBIO 3880, PBIO 3940, PBIO 3990, PBIO 3993, PBIO 3994, PBIO 3995, PBIO 4996, PBIO 5220, PBIO 5940, PHRM 3000, PHRM 3010, PHRM 3720, PHRM 3900, PHRM 5400, PSYS 2200, PSYS 3200, PSYS 3202, PSYS 3250, PSYS 3205, PSYS 3210, SEP 4200, SEP 4280, SEP 4500, SEP 4800, STAT 3000, WFB 2300, WFB 2310, WFB 2410, WFB 2740, WFB 2990, WFB 3240, WFB 3610, WFB 4320, WFB 4610, WFB 4750, WFB 4830</p>		
<b>Total Credits</b>		<b>78-80</b>

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.