

# Bachelor of Science with a Major in Biology

## Requirements for the Bachelor of Science Degree with a Major in Biology

Code	Title	Hours
<b>Core Curriculum</b>		<b>60</b>
Core IMPACTS (See VSU Core Curriculum) <sup>1</sup>		42
Core Field of Study		
Science		14-15
BIOL 1100	Biology Freshmen Seminar - Introduction to the Biological Sciences	
BIOL 1108 & 1108L	Principles of Biology II and Principles of Biology Laboratory II	
CHEM 1211	Principles of Chemistry I	
CHEM 1211L	Principles of Chemistry Laboratory I	
CHEM 1212	Principles of Chemistry II	
CHEM 1212L	Principles of Chemistry Laboratory II	
PHYS 1111K	Introductory Physics I	
PHYS 1112K	Introductory Physics II	
PHYS 2211K	Principles of Physics I	
PHYS 2212K	Principles of Physics II	
A minimum grade of "C" is required for all BIOL, CHEM, MATH, and PHYS courses.		
MATH 2262 or MATH 1401	Analytic Geometry and Calculus II Elementary Statistics	3-4
<b>Senior College Curriculum</b>		<b>60</b>
A minimum grade of "C" is required for all BIOL and CHEM courses.		
Required Biology Courses		8
BIOL 3200	Introductory Genetics	3
BIOL 3250	Ecology and Evolution	4
BIOL 4900	Senior Seminar	1
Biology Electives <sup>2</sup>		26-27
Required Chemistry courses		
CHEM 3401	Organic Chemistry I	4
CHEM 3402	Organic Chemistry II	4
CHEM 3601	Biochemistry I	3
General Electives		11-12
Carry-over from Core		3-4
<b>Total hours required for the degree</b>		<b>120</b>

<sup>1</sup>

Biology majors are required to take pre-calculus (MATH 1113) in Mathematics and Quantitative Skills and calculus (MATH 2261) in Technology, Mathematics, and Sciences. One hour of calculus will transfer to the upper elective hours. Biology majors must take 8 hours of science in Technology, Mathematics, and Sciences and may choose any of the following courses: BIOL 1107 and BIOL 1107L, CHEM 1211 and CHEM 1211L, CHEM 1212 and CHEM 1212L, or calculus-based physics (PHYS 2211K and PHYS 2212K). If biology or chemistry courses are taken in Technology, Mathematics, and Sciences, biology majors may take non-calculus-based physics (PHYS 1111K and PHYS 1112K) in Core Field of Study.

<sup>2</sup>

3000-level and above (but not BIOL 4830, BIOL 4840, BIOL 4850)

Four courses with labs required

BIOL 4950 limited to 3 hours.

## Accelerated Undergraduate-to-Graduate Track

Contingent upon acceptance into the Accelerated Undergraduate-to-Graduate Track, students wishing to pursue a Master of Science in Biology at Valdosta State University may take up to 9 semester hours of graduate-level coursework (courses numbered 5000 or above) that will count toward Biology electives or general electives for the undergraduate degree.

Acceptance into the Accelerated track requires:

1. written notification by a Biology faculty member to the Biology Graduate Program Coordinator of her/his willingness to serve as the student's thesis advisor;
2. completion of 90 semester hours of undergraduate coursework, at least 18 hours of which is in Biology; and
3. an overall GPA in undergraduate coursework of at least 3.0.

Graduate courses taken as an undergraduate will count toward the 120-hour graduation requirement but will not count toward the student's undergraduate GPA or the calculation of academic honors.

Upon acceptance into the Accelerated Undergraduate-to-Graduate Track in Biology, students must maintain an overall GPA of 3.0 to remain in good standing. Students who do not maintain good standing or who do not wish to continue with the Accelerated Undergraduate-to-Graduate Track in Biology may revert to their original track to complete the remaining requirements for the B.S. in Biology.