

**B.S. in Biology with a Biotechnology Concentration**  
**Four-Year Roadmap to Graduation**

Year	Fall	Spring
<b>1</b>	Math 2010 Calculus for the Biological Sciences 4	Biology 2010 Introductory Biology, Cells 4
	Chemistry 1000 3	Biology 2110 Introductory Biology, Animals 4
	First-Year Seminar 2	Chemistry 1001 Foundations of Chemistry Lab 2
	GE Area A2 (recommended first) 3	Chemistry 1100 Foundations of Analytical Chemistry 2
	GE Area A1, A3, C1, C2, D1, or D2 3	GE Area A1, A3, C1, C2, D1, or D2 3
<b>30 units</b>	15 units	15 units
<b>2</b>	Biology 2120 Introductory Biology, Plants 4	Biology 3120 Research Design and Analysis 4
	Biology 3010 General Genetics 3	Biology 3020 General Physiology 3
	Chemistry 2300 Foundations of Organic Chemistry 3	Chemistry 2400 Foundations of Biochemistry 2
	*Self GE Area C or D 3	GE Area A1, A3, C1, C2, D1, or D2 3
	GE Area A1, A3, C1, C2, D1, or D2 3	GE Area A1, A3, C1, C2, D1, or D2 3
<b>31 units</b>	16 units	15 units
<b>3</b>	Biology 3110 General Ecology 3	Biology 4440 Molecular Genetics 4
	Biology 3410 Microbiology 4	Biology Upper Elective 4000 Level 4
	Chemistry 3300 Organic Chemistry I 3	Junior Year Diversity Reflection 3
	Chemistry 3301 Organic Chemistry Lab I 2	Free elective 4
	AI History or Government 3 GWAR (Exam)	
<b>30 units</b>	15 units	15 units
<b>4</b>	Biology 4100 Evolution 3	Biology Upper Elective 4000 Level 4
	Physics 2110 College Physics I 4	Biology 4918 Senior Seminar 1
	AI History or Government 3	Physics 2120 College Physics II 4
	UD Area C or D 3	UD Area C or D 3
		Free elective 4
<b>29 units</b>	13 units	16 units

Unit Totals

<i>Cognate Units</i>	29
<i>Major Units</i>	45
<i>GE Units</i>	38
<i>Additional units (free electives)</i>	8
<b>Total</b>	<b>120</b>

**Important Notes**

- Courses may not always be taught in the semester shown. Check for the most current list of projected course offerings.
- Area A4 and Area B1 and B2 requirements are satisfied within the major; you DO NOT need to take them.
- \*The SELF requirement is met by completing a lower division Area C or D course with a SELF component.
- Be sure to meet with your Biology faculty advisor frequently to ensure you are meeting all degree requirements.
- This is just one example of how to schedule classes to graduate in 4 years. Other schedules may be equally valid.