

**CLEMSON UNIVERSITY EUGENE T. MOORE SCHOOL OF EDUCATION**  
**TEACHING AREA: BIOLOGICAL SCIENCES, Science Teaching Grades 9 - 12**  
**BACHELOR OF SCIENCE**

**CURRICULUM PLAN 2009-2010**

The program leading to Bachelor of Arts in Secondary Biological Sciences is designed for students planning to teach science on the secondary school level (grades 9-12).

**FRESHMAN YEAR**

<u>Fall Semester</u>		<u>Spring Semester</u>			
BIOL 103	General Biology I <b>AND</b>	3	BIOL 104	General Biology II <b>AND</b>	3
BIOL 105	General Biology Lab I <b>OR</b>	1	BIOL 106	General Biology Lab II <b>OR</b>	1
BIOL 110	Principles of Biology I	or 5	BIOL 111	Principles of Biology II	or 5
CH 101	General Chemistry	4	CH 102	General Chemistry	4
COMM 150	Intro to Human Communication	3	ED 105	Orientation to Education	2
MTHSC 106	Calculus of One Variable I	4	ENGL 103	Accelerated Composition	3
LIB 100	Clemson Connect	<u>0</u>		Statistics Requirement <sup>1</sup>	<u>3</u>
		15-16			16-17

**SOPHOMORE YEAR**

<u>Fall Semester</u>		<u>Spring Semester</u>			
CH 201	Survey of Organic Chemistry	4	BIOSC 316	Human Physiology	4
HIST 122	History, Technology, & Society	3	ED F 301	Principles of American Education	3
PHYS 207	General Physics I	3	ED F 315	Technology Skills for Learning	1
PHYS 209	General Physics I Lab	1	PHYS 208	General Physics II	3
	Biochemistry or Genetics Requirement <sup>2</sup>	<u>4</u>	PHYS 210	General Physics II Lab	1
		15		Biochemistry or Genetics Requirement <sup>2</sup>	<u>4</u>
					16

**JUNIOR YEAR**

<u>Fall Semester</u>		<u>Spring Semester</u>			
BIOSC 461	Cell Biology	3	BIOSC 335	Evolutionary Biology	3
ED F 302	Educational Psychology	3	BIOSC 482	Lab Techniques for Teaching Science	3
EDSEC 327	Practicum in Secondary Science	3	ED F 335	Adolescent Growth & Development	3
	Ecology Requirement <sup>3</sup>	3		Arts and Humanities (Literature) Req <sup>5</sup>	3
	Plant or Animal Diversity Requirement <sup>5</sup>	<u>4</u>		Plant or Animal Diversity Requirement <sup>4</sup>	<u>4</u>
		16			16

**SENIOR YEAR**

<u>Fall Semester</u>		<u>Spring Semester</u>			
ED SP 370	Introduction to Special Education	3	EDSEC 447	Teaching Intern. in Secondary Science <sup>7</sup>	9
EDSEC 427	Teaching Secondary Science <sup>6</sup>	3	EDSEC 457	Secondary Science Capstone Seminar <sup>7</sup>	3
GEOG 103	World Regional Geography	3			
READ 498	Secondary Content Area Reading <sup>6</sup>	3			
	Art & Humanities (Non-Lit) Require <sup>5</sup>	<u>3</u>			
		15			12

**TOTAL SEMESTER HOURS 121 - 123**

<sup>1</sup> EX ST 301, MTHSC 203, 301, or 309

<sup>2</sup> One lecture and associated laboratory must be completed for both Biochemistry (BIOCH 301/302 or 305/306) and for Genetics (GEN 300/301 or 302/303)

<sup>3</sup> BIOSC 441, 443, 446, or 470

<sup>4</sup> One lecture and associated laboratory must be completed for both Plant Diversity (BIOSC 304/308 or 305/309) and for Animal Diversity (BIOSC 302/306 or 303/307)

<sup>5</sup> See General Education Requirements

<sup>6</sup> To be taken the semester prior to EDSEC 447 and 457. EDSEC 427 and READ 498 must be taken concurrently.

**Offered fall semester only**

<sup>7</sup> EDSEC 447 and 457 must be taken concurrently. **Offered spring semester only.**