

**CLEMSON UNIVERSITY EUGENE T. MOORE SCHOOL OF EDUCATION**  
**TEACHING AREA: PHYSICAL 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>		
Ch 101	General Chemistry I	4	CH 102	General Chemistry II	4
COMM 150	Intro to Human Communication	3	ENGL 103	Accelerated Composition	3
ED 105	Orientation to Education	2	MTHSC 108	Calculus of One Variable II	4
HIST 122	History, Technology, and Society	3	PHYS 122	Physics with Calculus I	3
MTHSC 106	Calculus of One Variable I	4	PHYS 124	Physics Lab. I	<u>1</u>
LIB 100	Clemson Connect	<u>0</u>			
		16			15

**SOPHOMORE YEAR**

<u>Fall Semester</u>			<u>Spring Semester</u>		
BIOL 103	General Biology I	3	BIOL 104	General Biology II	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 201	Survey of Organic Chemistry	4	CH 205	Intro. to Physical Chemistry	3
MTHSC 206	Introductory Statistics	4	ED F 301	Principles of American Education	3
PHYS 221	Physics with Calculus II	3	ED F 315	Tech. Skills for Learning	1
PHYS 223	Physics Lab. II	<u>1</u>	PHYS 222	Physics with Calculus I	3
		16 - 17	PHYS 224	Physics Lab. I	<u>1</u>
					15-16

**JUNIOR YEAR**

<u>Fall Semester</u>			<u>Spring Semester</u>		
ASTR 105	Physics of the Universe <b>OR</b>	3	BIOSC 482	Lab. Techniques for Teaching Science	3
ASTR 102	Stellar Astronomy <b>AND</b>	or 3	CH 330	Introduction to Physical Chemistry	3
ASTR 104	Stellar Astronomy Lab	&1	ED F 335	Adolescent Growth & Development	3
CH 313	Quantitative Analysis	3		Social Science Requirement <sup>2</sup>	3
CH 317	Quantitative Analysis Lab	1		Statistics Requirement <sup>3</sup>	<u>3</u>
ED F 302	Educational Psychology	3			
EDSEC 327	Practicum in Secondary Science	3			
	Arts & Hum (Literature) Req <sup>1</sup>	3			
		16-17			15

**SENIOR YEAR**

<u>Fall Semester</u>			<u>Spring Semester</u>		
ED SP 370	Introduction to Special Education	3	EDSEC 447	Teaching Internship in Sec. Science <sup>5</sup>	9
EDSEC 427	Teaching Secondary Science <sup>4</sup>	3	EDSEC 457	Secondary Science Capstone Seminar <sup>5</sup>	<u>3</u>
PHIL 324	Philosophy of Technology <b>OR</b>	3			
PHIL 325	Philosophy of Science <b>OR</b>				
PHIL 326	Science and Values				
PHYS 311	Intro. to Meth. of Theoretical Phys	3			
READ 498	Secondary Content Area Reading <sup>4</sup>	<u>3</u>			
		15			12

**TOTAL HOURS – 120-123**

<sup>1</sup> ENGL 212, 213, 214, or 215

<sup>2</sup> ANTH 201, GEOG 103, PO SC 102 or 104

<sup>3</sup> EX ST 301, MTHSC 203, 301, OR 309

<sup>4</sup> To be taken the semester prior to EDSEC 447 and 457. ED F 425, EDSEC 427, and READ 498 must be taken concurrently.

**Offered fall semester only.**

<sup>5</sup> EDSEC 447 and 457 must be taken concurrently. **Offered spring semester only.**