

# BIOLOGY – 8<sup>TH</sup> – 12<sup>TH</sup> GRADE TEACHING

125  
BS.BIOL.8-12  
Fall 2008-Spring 2009

## Bachelor of Science

THE UNIVERSITY OF TEXAS AT BROWNSVILLE and TEXAS SOUTHWEST COLLEGE  
COLLEGE OF SCIENCE, MATHEMATICS AND TECHNOLOGY

Science 8-12 Certification

Student Name \_\_\_\_\_ ID # \_\_\_\_\_ Date \_\_\_\_\_

E-mail \_\_\_\_\_ Signature \_\_\_\_\_

Academic or Faculty Advisor \_\_\_\_\_ Date \_\_\_\_\_

GENERAL EDUCATION CORE	48 HOURS			MAJOR REQUIREMENTS	40 HOURS		
	HRS	GR	GPT		HRS	GR	GPT
<b>COMMUNICATION REQUIREMENT</b>	9 hours			<b>PEDAGOGY &amp; PROFESSIONAL RESPONSIBILITY</b>	18 HOURS £		
ENGL 1301 Composition I	3	†		EDSC 4322 Human Development and Instruction	3		
ENGL 1302 Composition II <i>or</i> ENGL 2311 Technical Writing	3	†		EDSC 4324 Designing Inst. & Assess to Promote Student Lrng.	3		
SPCH 1315 Applied Communications	3			EDSC 4325 Implementing Responsive Instruction & Assessm.	3		
				EDSC 4379 Teaching Science in 8-12 Classrooms	3		
				EDSC 4641 Student Teaching Secondary 8-12	6		
<b>MATH REQUIREMENT</b>	3 hours						
MATH 2413 Calculus I	3*	†					
				<b>CORE COURSES FOR THE MAJOR</b>	28 hours		
<b>SCIENCE REQUIREMENT</b>	8 hours			BIOL 1306 General Biology I	3		
CHEM 1311 & CHEM 1111 General Chemistry I & Lab I	3,1			BIOL 1106 General Biology Laboratory I	1		
CHEM 1312 & CHEM 1112 General Chemistry II & Lab II	3,1			BIOL 1307 General Biology II	3		
				BIOL 1107 General Biology Laboratory II	1		
<b>HUMANITIES REQUIREMENT</b>	6 hours			BIOL 2343 General Biology III	3		
Literature (ENGL 2000 level)	3			BIOL 2143 General Biology Laboratory III	1		
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				BIOL 3303 Genetics	3		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3			BIOL 3103 Genetics Laboratory	1		
				BIOL 3309 Ecology	3		
<b>SOCIAL SCIENCE REQUIREMENT</b>	12 hours			BIOL 3109 Ecology Laboratory	1		
HIST 1301 United States to 1877	3			BIOL 3312 Cell Biology	3		
HIST 1302 United States since 1877	3			BIOL 3112 Cell Biology Laboratory	1		
GOVT 2301 American and Texas Government	3			BIOL 4100 Biology Seminar	1		
GOVT 2302 American Government and Policy	3			BIOL 4301 Evolution	3		
<b>BEHAVIORAL SCIENCE REQUIREMENT</b>	3 hours			<b>BIOLOGY ELECTIVES</b>	12 hours		
ANTH 2351 Cultural Anthropology				(6 hours must be advanced 3000, 4000 level)			
BUSI 1301 Introduction to Business				BIOL	Advanced		
ECON 2301 Macroeconomics				BIOL	Advanced		
GEOG 1303 General World Geography				BIOL			
PSYC 2301 Introduction to Psychology				BIOL			
SOCI 1301 Introduction to Sociology							
SOCI 2319 The Mexican American Experience				<b>SUPPORT COURSES</b>	17 HOURS		
				CHEM 2323 & CHEM 2123 Organic Chemistry I & Lab I	3, 1		
<b>KINESIOLOGY REQUIREMENT</b>	1 hour			CHEM 2325 & CHEM 2125 Organic Chemistry II & Lab II	3, 1		
KINE 11____ (One hour of activity/health/wellness/ fitness)	1			MATH 2413 Calculus I	1*	†	
				PHYS 1301 & PHYS 1101 General Physics I & Lab I	3, 1		
<b>MODERN LANGUAGE REQUIREMENT</b>	6 hours			PHYS 1302 & PHYS 1102 General Physics II & Lab II	<i>or</i>		
Six hours of same modern language, other than English.				GEOL 1303 & GEOL 1103 Physical Geology & Lab	<i>or</i>		
	3			GEOL 1304 & GEOL 1104 Historical Geology & Lab	<i>or</i>		
	3			ESCI 1301 & ESCI 1101 Intro. to Env. Science & Lab	<i>or</i>		
				GEOL/GEOG 4440 Geographic Information			
				<b>LITERACY</b>	3 HOURS £		
				EDLI 4351 Content Area Literacy	3		
				<b>TOTAL CREDIT HOURS FOR GRADUATION</b>	126		
				<b>TOTAL ADVANCED HOURS (minimum)</b>	36		

† Grade of "C" or better is required for graduation.

\* MATH 2413 – 3 sch for general education and 1 sch for support courses.

£ Maintain a minimum of 2.50 GPA with a grade no lower than a C.