

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

128  
BS.PHYS.8-12  
Fall 2008-Spring 2009

## Bachelor of Science

THE UNIVERSITY OF TEXAS AT BROWNSVILLE and TEXAS SOUTHWEST COLLEGE  
COLLEGE OF SCIENCE, MATH & TECHNOLOGY

Science 8-12 Certification

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

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

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

GENERAL EDUCATION CORE	48 HOURS			MAJOR REQUIREMENTS	34 HOURS		
	HRS	GR	GPT		HRS	GR	GPT
<b>COMMUNICATION REQUIREMENT</b>	9 hours			<b>PEDAGOGY &amp; PROFESSIONAL RESPONSIBILITY</b>	18 HOURS E		
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 Communication	3			EDSC 4325 Implementing Responsive Instruction & Assessm.	3		
				EDSC 4379 Teaching Science in 8-12 Classrooms	3		
<b>MATH REQUIREMENT</b>	3 hours			EDSC 4641 Student Teaching Secondary 8-12	6		
MATH 2413 Calculus I	3*	†					
				<b>CORE COURSES FOR THE MAJOR</b>	29 hours		
<b>SCIENCE REQUIREMENT</b>	8 hours			PHYS 3400 Modern Physics	4		
PHYS 2325 & PHYS 2125 University Physics I & Lab I	3,1			PHYS 3201 Advanced Physics Lab I	2		
PHYS 2326 & PHYS 2126 University Physics II & Lab II	3,1			PHYS 3310 Classical Mechanics	3		
				PHYS 3320 Thermodynamics	3		
<b>HUMANITIES REQUIREMENT</b>	6 hours			PHYS 3490 Mathematics for Scientists and Engineers I	4		
Literature (ENGL 2000 level)	3			PHYS 3492 Mathematics for Scientists and Engineers II	4		
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				PHYS 4300 Undergraduate Research	3		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3			PHYS 4320 Quantum Mechanics	3		
				PHYS 4330 Electromagnetic Theory	3		
<b>SOCIAL SCIENCE REQUIREMENT</b>	12 hours						
HIST 1301 United States to 1877	3			<b>PHYSICS ELECTIVES</b>	5 hours		
HIST 1302 United States Since 1877	3			(5 hours must be advanced 3000, 4000 level)			
GOVT 2301 American and Texas Government	3			PHYS _____ Advanced			
GOVT 2302 American Government and Policy	3			PHYS _____ Advanced			
<b>BEHAVIORAL SCIENCE REQUIREMENT</b>	3 hours			<b>SUPPORT COURSES</b>	23 HOURS		
ANTH 2351 Cultural Anthropology				MATH 2413 Calculus I	1*	†	
BUSI 1301 Introduction to Business				MATH 2414 Calculus II	4		
ECON 2301 Macroeconomics				MATH 2415 Calculus III	4		
GEOG 1303 General World Geography				MATH 3349 Differential Equations	3		
PSYC 2301 Introduction to Psychology				CHEM 1311 General Chemistry I	3		
SOCI 1301 Introduction to Sociology				CHEM 1111 General Chemistry I Laboratory	1		
SOCI 2319 The Mexican American Experience				CHEM 1312 General Chemistry II	3		
				CHEM 1112 General Chemistry II Laboratory	1		
<b>KINESIOLOGY REQUIREMENT</b>	1 hour			COSC 1336 Programming Fundamentals I	3		
KINE 11____ (One hour of activity/health/wellness/ fitness)	1						
				<b>LITERACY</b>	3 HOURS E		
<b>MODERN LANGUAGE REQUIREMENT</b>	6 hours			EDLI 4351 Content Area Literacy	3		
Six hours of same modern language, other than English.							
	3			<b>TOTAL CREDIT HOURS FOR GRADUATION</b>	126		
	3			<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.

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