

PHYSICS

104
BS.PHYS
Fall 2008-Spring 2009

Bachelor of Science

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

Student Name _____ ID # _____ Date _____

E-mail _____ Signature _____

Academic or Faculty Advisor _____ Date _____

GENERAL EDUCATION CORE	48 HOURS			MAJOR REQUIREMENTS	44 HOURS		
	HRS	GR	SEM		HRS	GR	SEM
COMMUNICATION REQUIREMENT	9 hours			CORE COURSES FOR THE MAJOR	29 hours		
ENGL 1301 Composition I	3	†		PHYS 3400 Modern Physics	4		
ENGL 1302 Composition II <i>or</i> ENGL 2311 Technical Writing	3	†		PHYS 3201 Advanced Physics Lab I	2		
SPCH 1315 Applied Communication	3			PHYS 3310 Classical Mechanics	3		
				PHYS 3320 Thermodynamics	3		
MATH REQUIREMENT	3 hours			PHYS 3490 Mathematics for Scientists and Engineers I	4		
MATH 2413 Calculus I	3*	†		PHYS 3492 Mathematics for Scientists and Engineers II	4		
				PHYS 4300 Undergraduate Research	3		
SCIENCE REQUIREMENT	8 hours			PHYS 4320 Quantum Mechanics	3		
PHYS 2325 & PHYS 2125 University Physics I & Lab I	3, 1			PHYS 4330 Electromagnetic Theory	3		
PHYS 2326 & PHYS 2126 University Physics II & Lab II	3, 1						
				PHYSICS ELECTIVES	6 hours		
HUMANITIES REQUIREMENT	6 hours			(6 hours must be advanced 3000, 4000 level)			
Literature (ENGL 2000 level)	3			PHYS _____ Advanced	3		
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				PHYS _____ Advanced	3		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3						
				RESTRICTED ELECTIVES **	9 hours		
SOCIAL SCIENCE REQUIREMENT	12 hours				3		
HIST 1301 United States to 1877	3				3		
HIST 1302 United States Since 1877	3				3		
GOVT 2301 American and Texas Government	3			** Chemistry, Biology, Computer Science, Advanced Math, or Advanced Physics.			
GOVT 2302 American Government and Policy	3			Advisor's approval is required.			
BEHAVIORAL SCIENCE REQUIREMENT	3 hours			SUPPORT COURSES	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		
KINESIOLOGY REQUIREMENT	1 hour			COSC 1336 Programming Fundamentals I	3		
KINE 11____ (One hour of activity/health/wellness/ fitness)	1						
				ELECTIVES	5 HOURS		
MODERN LANGUAGE REQUIREMENT	6 hours						
Six hours of same modern language, other than English.							
	3						
	3			TOTAL CREDIT HOURS FOR GRADUATION	120		
				TOTAL ADVANCED HOURS (minimum)	36		

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

* MATH 2413-3 sch for general education and 1 sch for support courses