

# ENGINEERING PHYSICS – ELECTRICAL ENGINEERING

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BS.ENGR.PHYS.ELET  
Fall 2008-Spring 2009

## Bachelor of Science

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

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

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

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

GENERAL EDUCATION CORE	48 HOURS			MAJOR REQUIREMENTS	80 HOURS		
	HRS	GR	SEM		HRS	GR	SEM
<b>COMMUNICATION REQUIREMENT</b>	9 hours			<b>SUPPORT COURSES</b>	16 hours		
ENGL 1301 Composition I	3	†		MATH 2413 Calculus I	1*	†	
ENGL 1302 Composition II <i>or</i> ENGL 2311 Technical Writing	3	†		MATH 2414 Calculus II	4		
SPCH 1315 Applied Communication	3			MATH 2321 Differential Equations & Linear Algebra	3		
				MATH 2415 Calculus III	4		
<b>MATH REQUIREMENT</b>	3 hours			CHEM 1311 General Chemistry I	3		
MATH 2413 Calculus I	3*	†		CHEM 1111 General Chemistry I Laboratory	1		
<b>SCIENCE REQUIREMENT</b>	8 hours			<b>PHYSICS CORE COURSES</b>	14 hours		
PHYS 2325 & PHYS 2125 University Physics I & Lab I	3,1			PHYS 3400 Modern Physics w/lab	4		
PHYS 2326 & PHYS 2126 University Physics II & Lab II	3,1			PHYS 3490 Mathematical Methods I	4		
				PHYS 4330 Electromagnetic Theory	3		
<b>HUMANITIES REQUIREMENT</b>	6 hours			PHYS 4390 Computational Methods for Engineers and Phys.	3		
Literature (ENGL 2000 level)	3						
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				<b>ENGINEERING COURSE COURSES</b>	28 hours		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3			ENGR 2301 Engineering Mechanics I: Statics	3		
				ENGR 2302 Engineering Mechanics II: Dynamics	3		
<b>SOCIAL SCIENCE REQUIREMENT</b>	12 hours			ENGR 2332 Mechanics of Materials	3		
HIST 1301 United States to 1877	3			ENGR 3320 Linear Circuits	3		
HIST 1302 United States since 1877	3			ENGR 3421 Electronics I	4		
GOVT 2301 American and Texas Government	3			ENGR 4441 Control Systems	4		
GOVT 2302 American Government and Policy	3			ENGR 3303 Thermodynamics	3		
				ENGR 4242 Senior Design Project I	2		
<b>BEHAVIORAL SCIENCE REQUIREMENT</b>	3 hours			ENGR 4243 Senior Design Project II	2		
ANTH 2351 Cultural Anthropology				ENGR 1101 Introduction to Engineering	1		
BUSI 1301 Introduction to Business							
ECON 2301 Macroeconomics				<b>COMPUTER SCIENCE CORE COURSES</b>	4 hours		
GEOG 1303 General World Geography				COSC 1437 Programming Fundamentals II	4		
PSYC 2301 Introduction to Psychology							
SOCI 1301 Introduction to Sociology				<b>ELECTRICAL ENGINEERING TRACK</b>	18 hours		
SOCI 2319 The Mexican American Experience				ENGR 4322 Electronics II	3		
				ENGR 4423 High Frequency Engineering	4		
<b>KINESIOLOGY REQUIREMENT</b>	1 hour			ENGR 4424 Electric Machinery	4		
KINE 11__ (One hour of activity/health/wellness/ fitness)	1			ENGR 4425 Analog and Digital Communications	4		
				ENGR 4326 Power Electronics	3		
<b>MODERN LANGUAGE REQUIREMENT</b>	6 hours						
Six hours of same modern language, other than English.							
	3			<b>TOTAL CREDIT HOURS FOR GRADUATION</b>	128		
	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 toward major requirements.