

COMPUTER SCIENCE

78
BS.COSC
Fall 2008-Spring 2009

Bachelor of Science

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

Student Name _____ ID # _____ Date _____

E-mail _____ Signature _____

Academic or Faculty Advisor _____ Date _____

GENERAL EDUCATION CORE	48 HOURS			MAJOR REQUIREMENTS	66 HOURS		
	HRS	GR	SEM		HRS	GR	SEM
COMMUNICATION REQUIREMENT	9 hours			COMPUTER SCIENCE FOUNDATION	26 hours		
ENGL 1301 Composition I	3	†		COSC 1336 Programming Fundamentals I	3	†	
ENGL 1302 Composition II <i>or</i> ENGL 2311 Technical Writing	3	†		COSC 1337 Programming Fundamentals II	3	†	
SPCH 1315 Applied Communication	3			COSC 2312 Digital Logic	3	†	
				COSC 2316 Web Programming and Design	3		
MATH REQUIREMENT	3 hours			MATH 2318 Linear Algebra	3		
MATH 2413 Calculus I	3*	†		COSC 2310 Discrete Structures	3	†	
				MATH 3381 Statistics	3		
SCIENCE REQUIREMENT	8 hours			MATH 2413 Calculus I	1*		
PHYS 2325 & PHYS 2125 University Physics I & Lab I	3, 1			MATH 2414 Calculus II	4		
PHYS 2326 & PHYS 2126 University Physics II & Lab II	3, 1			COMPUTER SCIENCE CORE	28 hours		
				COSC 2336 Programming Fundamentals III	3	†	
HUMANITIES REQUIREMENT	6 hours			COSC 2325 Machine Language and Computer Organization	3		
Literature (ENGL 2000 level)	3			COSC 3325 Computer Architecture	3		
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				COSC 4313 Computer Networks	3		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3			COSC 3345 Data Structures and Algorithm Analysis	3		
				COSC 3355 Principles of Programming Languages	3		
SOCIAL SCIENCE REQUIREMENT	12 hours			COSC 4310 Operating Systems	3		
HIST 1301 United States to 1877	3			COSC 4346 Software Engineering	3		
HIST 1302 United States since 1877	3			COSC 4190 Senior Project	1		
GOVT 2301 American and Texas Government	3			COSC 4342 Database Management Systems	3		
GOVT 2302 American Government and Policy	3						
				COMPUTER SCIENCE ELECTIVES	12 hours		
BEHAVIORAL SCIENCE REQUIREMENT	3 hours			(12 hours must be advanced 3000, 4000 level)			
ANTH 2351 Cultural Anthropology				COSC Advanced	3		
BUSI 1301 Introduction to Business				COSC Advanced	3		
ECON 2301 Macroeconomics				COSC Advanced	3		
GEOG 1303 General World Geography				COSC Advanced	3		
PSYC 2301 Introduction to Psychology							
SOCI 1301 Introduction to Sociology				MATHEMATICS ELECTIVES	3-4 hours		
SOCI 2319 The Mexican American Experience				Choose from: MATH 2415, 3349	3		
KINESIOLOGY REQUIREMENT	1 hour						
KINE 11____ (One hour of activity/health/wellness/ fitness)	1			ELECTIVES	7-8 HOURS		
				3-4 hours from MATH 1314, 2412 or any course			
MODERN LANGUAGE REQUIREMENT	6 hours			listed in "Computer Science" or "Mathematics" Electives.			
Six hours of same modern language other than English.					3-4		
	3						
	3			4 hours from PHYS 3400, CHEM 1311, 1111, or CHEM 1312, 1112, or			
				BIOL 1306, 1106, or BIOL 1307, 1107			
					3, 1		
				TOTAL CREDIT HOURS FOR GRADUATION	124-126		
				TOTAL ADVANCED HOURS (minimum)	36		

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

* MATH 2413 – 3 sch for general education and 1sch towards major requirements.