

CHEMISTRY– 8TH – 12TH GRADE TEACHING

126
BS.CHEM.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						
	HRS	GR	GPT		HRS	GR	GPT
COMMUNICATION REQUIREMENT	9 hours			PEDAGOGY & PROFESSIONAL RESPONSIBILITY	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		
MATH REQUIREMENT	3 hours			EDSC 4641 Student Teaching Secondary 8-12	6		
MATH 2413 Calculus I	3*	†					
				CORE COURSES FOR THE MAJOR	35 HOURS		
SCIENCE REQUIREMENT	8 hours			CHEM 2323 Organic Chemistry I	3		
CHEM 1311 & CHEM 1111 General Chemistry I & Lab I	3,1			CHEM 2123 Organic Chemistry Laboratory I	1		
CHEM 1312 & CHEM 1112 General Chemistry II & Lab II	3,1			CHEM 2325 Organic Chemistry II	3		
				CHEM 2125 Organic Chemistry Laboratory II	1		
HUMANITIES REQUIREMENT	6 hours			CHEM 3301 Inorganic Chemistry	3		
Literature (ENGL 2000 level)	3			CHEM 3303 Biochemistry I	3		
ARTS 1301 Art Appreciation <i>or</i> ARTS 1303 Art History <i>or</i>				CHEM 3103 Biochemistry Laboratory I	1		
MUSI 1306 Music Appreciation <i>or</i> MUSI 1308 Music Lit.	3			CHEM 3305 Analytical Chemistry	3		
				CHEM 3105 Analytical Chemistry Laboratory	1		
SOCIAL SCIENCE REQUIREMENT	12 hours			CHEM 3310 Physical Chemistry I	3		
HIST 1301 United States to 1877	3			CHEM 3110 Physical Chemistry Laboratory I	1		
HIST 1302 United States since 1877	3			CHEM 3312 Physical Chemistry II	3		
GOVT 2301 American and Texas Government	3			CHEM 3112 Physical Chemistry Laboratory II	1		
GOVT 2302 American Government and Policy	3			CHEM 4110 Chemical Seminar	1		
				CHEM 4305 Instrumental Methods of Analysis	3		
BEHAVIORAL SCIENCE REQUIREMENT	3 hours			CHEM 4105 Instrumental Methods of Analysis Laboratory	1		
ANTH 2351 Cultural Anthropology				CHEM 4320 Chemistry Problems	3		
BUSI 1301 Introduction to Business							
ECON 2301 Macroeconomics				CHEMISTRY ELECTIVES	2 - 3 HOURS		
GEOG 1303 General World Geography				(Must be advanced 3000, 4000 level) – 2 hrs if MATH 2415 or 3 hrs if MATH 3349			
PSYC 2301 Introduction to Psychology				CHEM	Advanced		
SOCI 1301 Introduction to Sociology				CHEM	Advanced		
SOCI 2319 The Mexican American Experience							
				SUPPORT COURSES	19 – 20 HOURS		
KINESIOLOGY REQUIREMENT	1 hour			PHYS 1301 General Physics I	3		
KINE 11____ (One hour of activity/health/wellness/ fitness)	1			PHYS 1101 General Physics Laboratory I	1		
				PHYS 1302 General Physics II	3		
MODERN LANGUAGE REQUIREMENT	6 hours			PHYS 1102 General Physics Laboratory II	1		
Six hours of same modern language, other than English.				MATH 2413 Calculus I	1*	†	
	3			MATH 2414 Calculus II	4		
	3			MATH 3349 Differential Equations <i>or</i> MATH 2415 Calculus III	3 - 4		
				COSC 1310 Computer Literacy	3		
				LITERACY	3 HOURS E		
				EDLI 4351 Content Area Literacy	3		
				TOTAL CREDIT HOURS FOR GRADUATION	126		
				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.

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