

**West Texas A&M University**  
**STARR Center**  
**Degree Checklist**  
**2006-2007**

**NAME:** \_\_\_\_\_ **WT ID:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Chemistry Option III—Biochemistry**  
**Department of Mathematics, Physical Sciences and**  
**Engineering - CC 312B 651-2540**

<b>CORE CURRICULUM COURSES (42 HOURS)</b>	<b>HRS</b>
ENGL 1301 (ENG 101) (ENGLISH)	3
ENGL 1302* (ENG 102) (ENGLISH)	3
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATIONS)	3
MATH 1314* (110) or 1324* (115)	3
CHEM 1411*, 1411L (101,101L) (CHEMISTRY)	4
CHEM 1412*, 1412L (102, 102L) (CHEMISTRY)	4
ENGL 2332* (ENG 201), 2333* (202), 2371* (203); HIST 2372 (210); PHIL 1301 (101); or SPAN 2312** (207) (ENGLISH, HISTORY, PHILOSOPHY, SPANISH) <b>Choose 1</b>	3
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) (FINE ARTS, ARTS, MUSIC, THEATRE) <b>Choose 1</b>	3
HIST 1301 (201) (HISTORY)	3
HIST 1302 (202) (HISTORY)	3
POSC 2305 (101) (POLITICAL SCIENCE)	3
POSC 2306 (102) (POLITICAL SCIENCE)	3
ANTH 2351 (201) ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SOCI 1301 (201) (ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SOCIOLOGY) <b>Choose 1</b>	3
PHED 1111 (SES 101) (PHYSICAL EDUCATION) Upon written recommendation of the University physician or the coordinator for Student Disability Services, students may substitute a one hour elective course in lieu of physical education course.	1
<b>BIOCHEMISTRY REQUIREMENTS (63-65 HOURS)</b>	
CHEM 2523*, 2523L (201) Organic Chemistry I	5
CHEM 2525*, 2525L (202) Organic Chemistry II	5
CHEM 3511*, 3511L (311) Analytical Chemistry	5
CHEM 4323*, 4223L (421) Biochemistry I/Biochemistry I Laboratory	5
CHEM 4324*, 4224L (422) Biochemistry II/Biochemistry II Laboratory	5
BIOL 1406, 1406L (101) (BIOLOGY) Basic and Contemporary Biology I BIOL 1413, 1413L (121) Zoology <b>Choose 1</b>	4
BIOL 1407, 1407L (102) Basic and Contemporary Biology II BIOL 1411, 1411L (122) Botany <b>Choose 1</b>	4
BIOL 2572*, 2572L (212) Microbiology	5
BIOL 3301 (301) Genetics	3
BIOL 3402*, 3402L (302) Cell Biology	4
BIOL 3440, 3440L (340) Anatomy and Physiology of Humans BIOL 4375 (475) Immunology and Serology	3-4
MATH 1316* (111) Plane Trigonometry MATH 1348* (140) or 2412 Pre-Calculus <b>Choose 1</b>	3-4
MATH 2413* (240) Calculus I	4

**Bachelor of Arts/Science Degree**  
**BA.BIOCHEM or BS.BIOCHEM (104)**

PHYS 1401*, 1401L (101) (PHYSICS) General Physics I PHYS 2425*, 2425L (210) Engineering Physics I <b>Choose 1</b>	4
PHYS 1402*, 1402L (102) General Physics II PHYS 2426*, 2426L (211) Engineering Physics II <b>Choose 1</b>	4
<b>BACHELOR OF ARTS REQUIREMENTS (12 HOURS) OPTION</b>	
Six hours of foreign language.	6-8
Six hours chosen from art, English, history, modern languages, music, philosophy and theatre.	6
<b>BACHELOR OF SCIENCE REQUIREMENTS (12 HOURS) OPTION</b>	
Six hours chosen from biology, chemistry, geology, geosciences, mathematics, and physics. (Covered by major)	0
Six hours chosen from agriculture, anthropology, biology, chemistry, computer information systems, economics, geography, geology, geosciences, history, mass communications, mathematics, physics, political science, psychology, sociology, speech, and sports and exercise sciences. (Covered by major)	0
<b>ELECTIVES (2-18 HOURS) BY ADVISEMENT***</b>	
ELECTIVES (ADVANCED)*** Select from chemistry, mathematics, biology, computer Information systems, physics, environmental science or geology.	
ELECTIVES (ALL LEVEL)	
<b>TOTAL HOURS REQUIRED TO COMPLETE DEGREE</b>	<b>123</b>

\* Indicates prerequisites—see catalog for more information.

\*\* Or an equivalent course (second year, second semester) in French or German.

\*\*\* At least 36 hours of advanced work (courses at the 3000- or 4000-level) are required to receive a bachelor's degree. At least 30 must be earned in residence at WTAMU.

NOTE: Option III is primarily intended for pre-medical students, other pre-professional students and students planning careers in sciences closely related to chemistry who want a second major chemistry.

Revised: 5/06  
CHEM.BIO.BA.BS

**Note: This is NOT a degree plan. Upon completion of 60 hours, apply for a degree plan in the office of the dean of the College of Agriculture, Nursing, Science and Engineering, located in Old Main, Room 402, or call 651-2585.**