

**West Texas A&M University  
STARR Center  
Degree Checklist  
2008-2009**

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

**Chemistry Option III—Biochemistry**  
Department of Mathematics, Chemistry and Physics  
FAB 165 651-2540

<b>CORE CURRICULUM COURSES: 31 HOURS</b>		
Number of hours does not include specific core requirements listed below.		
<b>Communication (10)</b>		
ENGL 1301 (ENG 101); 1302* (ENG 102) or 2311* (ENG 270)	6	
<b>Communication (11)</b>		
SCOM 1315 (101), 1318 (103), or 1321 (201)	3	
<b>Mathematics (20)</b>		
See University Core Requirements below	(3)	
<b>Natural Sciences (30)</b>		
See University Core Requirements below	(8)	
<b>Humanities (40-41)</b>		
ENGL 2321* (NEW), 2326* (NEW), 2331* (NEW), 2341* (NEW), 2343* (NEW); HIST 2311 (110), 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); or SPAN 2312*/** (207) Choose 1	3	
<b>Visual and Performing Arts (50)</b>		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303 (NEW); MUSI 1306 (MUS 101) or 1208 and 1209; or THRE 1310 (105) Choose 1	3	
<b>Social and Behavioral Sciences (60)</b>		
HIST 1301 (201), 1302 (202), 2301 Choose 2	6	
<b>Social and Behavioral Sciences (70)</b>		
POSC 2305 (101) or POSC 2370 (NEW); 2306 (102)	6	
<b>Social and Behavioral Sciences (80)</b>		
AGBE 2317 (213), ANTH 2351 (201); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202), 2371; GEOG 1302 (202); PSYC 2301 (PSY 201); SCOM 2377 (255); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1	3	
<b>Institutionally Designated Option (90)</b>		
PHED 1111 (SES 101); PHED/ANSC activity course; DANC 1241 (1070), 2241* (2370); MUEN 1026 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.	1-2	
<b>BIOCHEMISTRY REQUIREMENTS: 77-79 HOURS</b> Courses required for a degree in Chemistry (Option III—Biochemistry).		
<b>UNIVERSITY CORE REQUIREMENTS: 11 HOURS</b>		
<b>CORE 20</b> MATH 1314* (110) or 1324* (115)	3	
<b>CORE 30</b> CHEM 1411*, 1411L (101,101L) Chemistry I	4	
<b>CORE 30</b> CHEM 1412*, 1412L (102, 102L) Chemistry II	4	
<b>BIOCHEMISTRY REQUIREMENTS: 66-68 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	

**Bachelor of Science Degree  
BS.BIOCHEM (104)**

BIOL 1406, 1406L (101) Basic and Contemporary Biology I BIOL 1413, 1413L (121) Zoology Choose 1	4	
BIOL 1407, 1407L (102) Basic and Contemporary Biology II BIOL 1411, 1411L (122) Botany Choose 1	4	
BIOL 2572*, 2572L (212) Microbiology	5	
BIOL 3301 (301) Genetics	3	
BIOL 3402*, 3402L (302) Cell Biology	4	
BIOL 3440, 3440L (340) Anatomy & Physiology of Humans BIOL 4375 (475) Immunology and Serology Choose 1	3-4	
MATH 1316* (111) Plane Trigonometry MATH 2412* Pre-Calculus Choose 1	3-4	
MATH 2413* (240) Calculus I	4	
PHYS 1401*, 1401L (101) (PHYSICS) General Physics I PHYS 2425*, 2425L (210) Engineering Physics I Choose 1	4	
PHYS 1402*, 1402L (102) General Physics II PHYS 2426*, 2426L (211) Engineering Physics II Choose 1	4	
MPS 4370* (NEW) Senior Investigations	3	
<b>ADVANCED ELECTIVES: 7-8 HOURS***</b>		
ADVANCED ELECTIVES Selected from chemistry, mathematics, biology, computer science, physics, environmental science or geology to provide a minimum of 36 hours.	7-8	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b>		
Covered by requirements for major.	<b>OPTION</b>	
<b>ELECTIVES</b>		
ELECTIVES (ANY LEVEL) MATH 2414 is recommended.	3-4	
<b>TOTAL HOURS REQUIRED TO COMPLETE DEGREE</b>	<b>120</b>	

♦ Core curriculum courses should be taken during the first two years of enrollment. For a list of core courses with descriptions see [www.wtamu.edu/starr/](http://www.wtamu.edu/starr/).  
\* 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 for students planning careers using chemistry applied to medical science, including pre-medical students and other pre-professional students.

**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, Science and Engineering located in the Agriculture and Natural Sciences Building, Room 106, or call 651-2585.**