

West Texas A&M University
STARR Center
Degree Checklist
2007-2008

NAME: _____ **WT ID:** _____ **DATE:** _____

Chemistry Option III—Biochemistry
Department of Mathematics, Chemistry and Physics
CC 312B 651-2540

CORE CURRICULUM COURSES (42 HOURS)	HRS
ENGL 1301 (ENG 101) Composition and Reading	3
ENGL 1302* (ENG 102) Composition and Reading	3
SCOM 1315 (101), 1318 (103), or 1321 (201) (SPEECH COMMUNICATION)	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) Choose 1	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) (HUMANITIES, ART, MUSIC, THEATRE) Choose 1	3
HIST 1301 (201) America, 1492-1877	3
HIST 1302 (202) America Since 1877	3
POSC 2305 (101) American National Government POSC 2370 (NEW) Constitutional American Government Choose 1	3
POSC 2306 (102) American State and Local Government	3
AGBE 2317 (213), ANTH 2351 (201), ECON 2301 (ECO 201), GEOG 1302 (202), PSYC 2301 (PSY 201), SCOM 2377 (255), SOCI 1301 (201) (AGRICULTURAL BUSINESS AND ECONOMICS, ANTHROPOLOGY, ECONOMICS, GEOGRAPHY, PSYCHOLOGY, SPEECH COMMUNICATION, SOCIOLOGY) Choose 1	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
BIOCHEMISTRY REQUIREMENTS (66-68 HOURS)	
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 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

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BIOL 3440, 3440L (340) Anatomy and Physiology of Humans BIOL 4375 (475) Immunology and Serology Choose 1	3-4
MATH 1316* (111) Plane Trigonometry MATH 1348* (140) or 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) (MATHEMATICS AND PHYSICAL SCIENCE) Senior Investigations	3
BACHELOR OF SCIENCE REQUIREMENTS (12 HOURS) OPTION	
Six hours chosen from biology, chemistry, geology, geosciences, mathematics, physics and natural sciences. (Covered by major)	0
Six hours chosen from agricultural business and economics; agriculture; animal science; anthropology; biology; biotechnology; chemistry; computer information systems; computer science; economics; engineering; engineering technology; environmental science; geography; geology; geosciences; history; integrated pest management; mass communications; mathematics; mathematics and physical science; mechanical engineering; physics; plant, soil and environmental science; political science; psychology; sociology; speech; and sports and exercise sciences. (Covered by major)	0
ELECTIVES (10-12 HOURS) BY ADVISEMENT***	
ELECTIVES (ADVANCED)*** Select from chemistry, mathematics, biology, computer information systems, physics, environmental science or geology.	7-8
ELECTIVES (ANY LEVEL) MATH 2414 is recommended.	3-4
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	120

* 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.

Revised: 3/07
chem.opt3.biochem.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, Science and Engineering, located in Old Main, Room 402, or call 651-2585.