

**West Texas A&M University
Advising Services
Degree Checklist
2014-2015**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: _____ WT ID: _____ DATE: _____

**Biotechnology—Science Option
Department of Life, Earth and Environmental Sciences
ANS 348A 651-2570**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
Communication (Code 10)		
ENGL 1301 (ENG 101) Introduction to Academic Writing and Argumentation	3	
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)	3	
Mathematics (Code 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Code 30)		
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Code 40)		
ANTH 2351 (201), ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); PHIL 1301 (101), 2374 (204); SPAN 2311* (206), 2312*/** (207), 2313* or SPAN 2315**	3	Choose 1
Creative Arts (Code 50)		
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209* (extra MUSI hour moves to Code 90); or THRE 1310 (105) Choose 1	3	
American History (Code 60)		
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6	
Government/Political Science (Code 70)		
POSC 2305 (101) and 2306 (102)	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317* (213); COMM 2377 (SCOM 255, 2377); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202); PSYC 2301 (PSY 201); SOCI 1301 (201) Choose 1	3	
Component Area Option (Code 90)		
See University Core Requirements below	(6)	
BIOTECHNOLOGY—SCIENCE OPTION MAJOR REQUIREMENTS: 83-89 HOURS A grade of "C" or better must be earned in all courses required for major.		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		
CORE 20 MATH 2413*[3] (241) Calculus I	3	
CORE 30 BIOL 1406[3] (101) Basic and Contemporary Biology I	3	
CORE 30 BIOL 1407*[3] (102) Basic and Contemporary Biology II	3	
CORE 90 ENGL 1302* (ENG 102) or 2311* (ENG 270)	3	
CORE 90 BIOL 1406L[1], 1407L[1], and MATH 2413[1]	3	
BIOTECHNOLOGY CORE REQUIREMENTS: 68-74 HOURS		
BIOL 2572*, 2572L (212) Microbiology	5	
AGRI/BIOL 3301 (301) Genetics	3	
BIOL 3402*, 3402L (302) Cell Biology	4	
BIOL 4375 (475) Immunology and Serology	3	
BIOL/BIOT 4401*, 4401L (401) Molecular Cytogenetics	4	
BIOL/BIOT 4402*, 4402L Cytotechnology	4	
BIOL/BIOT 4404*, 4404L (401) Bioinformatics	4	

**Bachelor of Science Degree
BS.BIOT (101)**

BIOL 4416, 4416L (416) Introductory Biometry OR AGRI 3318* (318) Agricultural Statistics	3-4	
BIOT 4385* (485) Biotechnology	3	
CHEM 1411*, 1411L (101, 101L) Chemistry I	4	
CHEM 1412*, 1412L (102, 102L) Chemistry II	4	
CHEM 2523*, 2523L (201) Organic Chemistry I OR CHEM 2533*, 2533L (233) Elementary Organic Chemistry	5	
CHEM 4323*, 4223L (421) Biochemistry I	5	
CHEM 4324*, 4224L (422) Biochemistry II	5	
PHYS 1401*, 1401L (101) General Physics I	4	
PHYS 1402*, 1402L (102) General Physics II	4	
Take two courses from: BIOT 4095* (421) Problems in Biotechnology BIOT 4098*/*** (492) Internship in Biotechnology BIOL 3350, 3350L (350) Hematology BIOL 3440, 3440L (340) Anatomy and Physiology of Humans BIOL 3451*, 3451L (351) Histology BIOL 3452*, 3452L (352) Embryology CHEM 3511*/****, 3511L (311) Analytical Chemistry MATH 2414* (241) Calculus II	4-9	
ELECTIVES: 4-10 HOURS BY ADVISEMENT—SEE NOTE ♦		
ELECTIVES	4-10	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	120	

♦ NOTE: The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

* Indicates prerequisites—see catalog for more information.

** Or an equivalent course (second year, second semester) in a foreign language.

*** For further specialization in biotechnology, an internship in industry or research is recommended.

**** This course is highly recommended.

NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (REL) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Note: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official 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). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.