

**West Texas A&M University
Advising Services
Degree Checklist
2012-2013**

(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 ♦		Specific course(s) required for this major are listed in the next section.		HRS	
Communication (10)					
ENGL 1301 (ENG 101); 1302* (ENG 102) or 2311* (ENG 270)	6				
Communication (11)					
COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)	3				
Mathematics (20)					
See University Core Requirements below	(4)				
Natural Sciences (30)					
See University Core Requirements below	(8)				
Humanities (40-41)					
ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); SPAN 2312** (207) or SPAN 2315** Choose 1	3				
Visual and Performing Arts (50)					
HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209*; or THRE 1310 (105) Choose 1	3				
Social and Behavioral Sciences (60)					
HIST 1301 (201) or 1303; 1302 (202) or 1304; 2301; 2381 Choose 2	6				
Social and Behavioral Sciences (70)					
POSC 2305 (101) or 2370; 2306 (102)	6				
Social and Behavioral Sciences (80)					
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); COMM 2377 (SCOM 255, 2377); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1	3				
Institutionally Designated Option (90)					
ANSC 2370; CIDM 1105, 1301 (CIS, IDM 1301), 1315 (CIS, IDM 1315), 2345; CS 1301; IDS 1071; PHIL 2303 (203) Choose 1	1-3				
BIOTECHNOLOGY—SCIENCE OPTION MAJOR REQUIREMENTS: 89 HOURS					
A grade of "C" or better must be earned in all courses required for major.					
UNIVERSITY CORE REQUIREMENTS: 12 HOURS					
CORE 20					
MATH 2413* (241) Calculus I	4				
CORE 30					
BIOL 1406, 1406L (101) Basic & Contemporary Biology I	4				
CORE 30					
BIOL 1407*, 1407L (102) Basic & Contemporary Biology II	4				
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 PSES 4310* Plant Breeding & Cytogenetics	4-9		
ELECTIVES: 1-9 HOURS BY ADVISEMENT—SEE NOTE			
ELECTIVES (ADVANCED)			
ELECTIVES (ANY LEVEL)			
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	120		

- ♦ A minimum of 42 hours from the core curriculum is required. 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 French or German.
*** 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. Before completion of 60 hours, students are allowed and 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). After completing 60 hours, students will not be allowed to progress without requesting a degree plan.