

West Texas A&M University
STARR Center
Degree Checklist
2012-2013

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

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

Mathematics
Department of Mathematics, Chemistry and Physics
Classroom Center, Room 420 (806)651-2540

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	(3)		
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 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		
MATHEMATICS MAJOR REQUIREMENTS: 55-56 HOURS			
A grade of "C" or better must be earned in all courses required for major.			
UNIVERSITY CORE REQUIREMENTS: 11-12 HOURS			
CORE 20			
MATH 1316* (111) Plane Trigonometry OR MATH 2412* (1348) Pre-Calculus	3-4		
CORE 30			
PHYS 1401*, 1401L (101) and PHYS 1402*, 1402L (102) OR PHYS 2425*, 2425L (210) and 2426*, 2426L (211)	8		
MATHEMATICS REQUIREMENTS: 44 HOURS			
MATH 2413* (240) Calculus I	4		
MATH 2414* (241) Calculus II	4		
MATH 3325* Introduction to Proofs	3		
MATH 4341* (441) Advanced Calculus	3		
Take 21 semester hours from:			
MATH 3311* (411) Linear Algebra	21		
MATH 3321* (321) Probability			
MATH 3340* (340) Calculus III			
MATH 3342* (342) Differential Equations I			
MATH 3343* (343) Differential Equations II		cont.→	

Bachelor of Science Degree
BS.MATH (115)

MATH 4310* (310) Modern Algebra		
MATH 4340* (440) Complex Variables I		
MATH 4361* (461) Engineering Statistics		
MATH 4362* (492) Introduction to Numerical Analysis		
CS 1315* Programming Fundamentals	3	
MATH 3306**/*** (306) Secondary Mathematics and Technology OR CS 1337, 1337L (1437) Introduction to Object-Oriented Programming ***	3-4	
MPS 4370* Senior Investigations	3	
BACHELOR OF SCIENCE REQUIREMENTS		
Covered by requirements for major.		OPTION
ELECTIVES: 31-34 HOURS BY ADVISEMENT		
ADVANCED ELECTIVES Additional advanced hours to provide a minimum of 39 hours.		6-9
ELECTIVES (ANY LEVEL)		22-28
TOTAL HOURS REQUIRED FOR 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. Ideally, these courses should be taken during the first two years of enrollment.
* Indicates prerequisites—see catalog for more information.
** Or an equivalent course (second year, second semester) in French or German.
*** Mathematics majors seeking teacher certification must take MATH 3306, and those who are not seeking teacher certification must take CS 1337.

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 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.