

**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:** \_\_\_\_\_

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

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
<b>Communication (Code 10)</b>		
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	
<b>Mathematics (Code 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Code 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Code 40)</b>		
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*/** Choose 1	3	
<b>Creative Arts (Code 50)</b>		
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	
<b>American History (Code 60)</b>		
HIST 1301 (201), 1302 (202), 2301, 2381 Choose 2	6	
<b>Government/Political Science (Code 70)</b>		
POSC 2305 (101) and 2306 (102)	6	
<b>Social and Behavioral Sciences (Code 80)</b>		
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	
<b>Component Area Option (Code 90)</b>		
See University Core Requirements below	(6)	
<b>MATHEMATICS MAJOR REQUIREMENTS: 59-63 HOURS</b> A grade of "C" or better must be earned in all courses required for major.		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦</b>		
<b>CORE 20</b> MATH 1314* (110), 1316* (111), 1324* (115), 2412*[3] (1348), or 2413*[3] (240)	3	
<b>CORE 30</b> PHYS 1401*[3] (101) and PHYS 1402*[3] (102) OR PHYS 2425*[3] (210) and 2426*[3] (211)	6	
<b>CORE 90</b> ENGL 1302* (ENG 102) or 2311* (270)	3	
<b>CORE 90</b> PHYS 1401L[1] and 1402L[1] or 2425L[1] and 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3	
<b>MATHEMATICS REQUIREMENTS: 44-48 HOURS</b>		
MATH 1316* (111) Plane Trigonometry OR MATH 2412* (1348) Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* (240) Calculus I	4	
MATH 2414* (241) Calculus II	4	
MATH 3325* Introduction to Proofs	3	
MATH 4341* (441) Advanced Calculus	3	

**Bachelor of Science Degree**  
**BS.MATH (115)**

<b>Take 21 semester hours from:</b> MATH 3311* (411) Linear Algebra MATH 3321* (321) Probability MATH 3340* (340) Calculus III MATH 3342* (342) Differential Equations I MATH 3343* (343) Differential Equations II MATH 4310* (310) Modern Algebra with Cryptography MATH 4340* (440) Complex Variables I MATH 4361* (461) Statistics for the Sciences MATH 4362* (492) Introduction to Numerical Analysis	21	
CS 1315* Programming Fundamentals OR CIDM 1315 Programming Fundamentals	3	
MATH 3306*/*** (306) Secondary Mathematics and Technology OR CS 1337, 1337L (1437) Introduction to Object-Oriented Programming ***	3	
MATH 4370* (MPS 4370) Senior Investigations OR MPS 4393* (499) Math/Physical Science/Engineering Technology Honors	3	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b> <span style="float: right;"><b>OPTION</b></span>		
Covered by requirements for major.		
<b>ELECTIVES: 30-34 HOURS BY ADVISEMENT ♦</b>		
<b>ADVANCED ELECTIVES</b> Additional hours to provide a minimum of 39 advanced (3000- or 4000-level) hours.	6-9	
<b>ELECTIVES (ANY LEVEL)</b>	21-28	
<b>MINIMUM HOURS REQUIRED FOR DEGREE</b>	<b>120</b>	

♦ 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.

\*\*\* 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. 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.**



First Year					
Fall			Spring		
H o u r s  13	CORE 10-ENGL 1301	3	H o u r s  14	CORE 90-ENGL 1302 or 2311	3
	CORE 20-MATH 2412	3		MATH 2413	4
	CORE 10-COMM 1315, 1318, or 1321	3		CORE 60-HIST 1301, 1302, 2301, or 2381	3
	CORE 60-HIST 1301, 1302, 2301, or 2381	3		CORE 30-PHYS 1401/1401L or 2425/2425L	4
	IDS 1071*	1			

Second Year					
Fall			Spring		
H o u r s  17	MATH 2414	4	H o u r s  15	MATH ELECTIVE	3
	CORE 30-PHYS 1402/1402L or 2426/2426L	4		See Checklist for Options	
	CORE 40 See Checklist for Options	3		MATH ELECTIVE	3
	CORE 70-POSC 2305 or 2306	3		See Checklist for Options	
	CS 1315 OR CIDM 1315	3		CS 1337/1337L OR MATH 3306	3

Third Year					
Fall			Spring		
H o u r s  15	MATH 3325	3	H o u r s  15	MATH ELECTIVE	3
	MATH ELECTIVE See Checklist for Options	3		See Checklist for Options	
	MATH ELECTIVE See Checklist for Options	3		MATH ELECTIVE See Checklist for Options	3
	CORE 80 See Checklist for Options	3		ELECTIVE See Checklist for Options	3
	ELECTIVE See Checklist for Options	3		ADV ELECTIVE See Checklist for Options	3

Fourth Year					
Fall			Spring		
H o u r s  15	MATH ELECTIVE See Checklist for Options	3	H o u r s  16	MATH ELECTIVE	3
	ELECTIVE See Checklist for Options	3		See Checklist for Options	
	CORE 50 See Checklist for Options	3		MATH 4341	3
	ADV ELECTIVE	3		See Checklist for Options	
	ELECTIVE See Checklist for Options	3		MATH 4370/MPS 4393	3

**DISCLAIMER:** This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Notes:

\* MATH 2412 (1) or MATH 2413 (1) can substitute for IDS 1071 (1) if these are used to satisfy CORE 20 requirements

Math 2412 is recommended over MATH 1316 for this degree plan, but MATH 1316 will be accepted.

Mathematics majors seeking teacher certification must take MATH 3306, and those not seeking teacher certification must take CS 1337.