

West Texas A&M University
Advising Services
Degree Checklist
2016-2017

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

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

Mathematics (Grades 7-12) Certification
Mathematics
Classroom Center, Room 420 (806)651-2540

CORE CURRICULUM COURSES: 42 HOURS †		HRS
Communication (Code 10)		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 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, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312**/, 2313*, 2315**/, or 2371 Choose 1	3	
Creative Arts (Code 50)		
ARTS 1303, ARTS 1304; DANC 2303; HUMA 1315; MUSI 1306 or 1208 and 1209* (extra MUSI hour moves to Code 90); Or THRE 1310 Choose 1	3	
American History (60)		
HIST 1301, 1302, 2301, 2381 Choose 2	6	
Government/Political Science (Code 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3	
Component Area Option (Code 90)		
See University Core Requirements below	(6)	
MATHEMATICS (GRADES 7-12) CERTIFICATION REQUIREMENTS: 92-96 HOURS A grade of "C" or better and a 2.75 GPA is required. ^		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS †		
CORE 20		
MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	3	
CORE 30		
PHYS 1401*[3] and PHYS 1402*[3] OR PHYS 2425*[3] and 2426*[3]	6	
CORE 90		
ENGL 1302* or 2311*	3	
CORE 90		
PHYS 1401L[1] and 1402L[1] or 2425L[1] and 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3	
MATHEMATICS REQUIREMENTS: 38-42 HOURS A 2.75 combined GPA ^ is required for Mathematics, Other Degree, and Supporting Area requirements below.		
MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* Calculus I	4	
MATH 2414* Calculus II	4	
MATH 3306* Secondary Mathematics and Technology	3	
MATH 3321* Probability OR MATH 4361* Engineering Statistics	3	
MATH 3325* Introduction to Proofs	3	
MATH 3331* Secondary Principles in Geometry	3	
MATH 4310* Modern Algebra with Cryptography	3	
MATH 4341* Advanced Calculus	3	

Bachelor of Science Degree
Major: Mathematics
BS.MATH.EDS (465) – TExES Exams: 160, 235

Select four courses from: MATH 3321* Probability OR MATH 4361* Statistics for the Sciences (one not taken above) MATH 3311* Linear Algebra MATH 3340* Calculus III MATH 3342* Differential Equations I MATH 3343* Differential Equations II MATH 4340* Complex Variables I MATH 4362* Introduction to Numerical Analysis		12	
OTHER DEGREE REQUIREMENTS: 6 HOURS			
CS 1315* Programming Fundamentals OR CIDM 1315 Programming Fundamentals	3		
MATH 4370* (MPS 4370) Senior Investigations OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3		
EDUCATION REQUIREMENTS: 27 HOURS (A grade of "C" or better and 2.75 GPA is required. ^)			
EDPD 3340 Educational Foundations	3		
EDPD 4340* Classroom Management	3		
EDRD 4386 Secondary Reading in Content Area	3		
EDSE 4320* Teaching in Secondary Schools I	3		
EDSE 4330* Teaching in Secondary Schools II	3		
EDSE 4340* Student Teaching—Secondary	3		
EDSE 4341* Student Teaching—Secondary	3		
EPSY 3341* Educational Psychology	3		
EPSY 3350 Children with Special Needs	3		
SUPPORTING AREA: 6 HOURS Take six hours from a supporting area: CS, Science or MATH.			
CS, Science or MATH course	3		
CS, Science or MATH course	3		
ELECTIVES: 0-1 HOUR †			
ELECTIVE	0-1		
TOTAL HOURS REQUIRED FOR DEGREE		120-123	

† 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.

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 (RELI) 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 by using the online [Degree Plan Request](#) form. The dean's office of the School of Engineering, Computer Science and Mathematics, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257), can answer questions about the degree plan. Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.



First Year					
Fall		Spring			
Hours 14	CORE 10-ENGL 1301	3	Hours 17	CORE 90-ENGL	3
	CORE 20-MATH 2412*	4		MATH 2413	4
	CORE 10-COMM 1315, 1318 or 1321	3		CORE 80	3
	CORE 60-HIST 1301, 1302, 2301 or 2381	3		See checklist for options	
	CORE 90-IDS 1071** (if required)	1		CORE 60-HIST 1301, 1302, 2301 or 2381	3
				PHYS	4
				1401/1401L or 2425/2425L	

Second Year					
Fall		Spring			
Hours 17	MATH 2414	4	Hours 18	MATH ELECTIVE	3
	PHYS 1402/1402L or 2426/2426L	4		See checklist for options	
	CS OR CIDM 1315	3		MATH ELECTIVE	3
	CORE 70-POSC	3		See checklist for options	
	See checklist for options			MATH 3321, 4361 or MATH ELECTIVE	3
	CORE 40	3		CORE 70-POSC 2305 or 2306	3
	See checklist for options			CORE 50	3
		See checklist for options		CS, SCIENCE or MATH ELECTIVE	3

Third Year					
Fall		Spring			
Hours 18	MATH 3325	3	Hours 15	MATH 4341	3
	MATH ELECTIVE See checklist for options	3		MATH 3306	3
	EDPD 3340	3		MATH 4310	3
	CS, SCIENCE or MATH ELECTIVE	3		EPSY 3341	3
	MATH 3331	3		EDRD 4386	3
	EPSY 3350	3			

Fourth Year					
Fall		Spring			
Hours 15	MATH 3321, 4361 or MATH ELECTIVE	3	Hours 6	EDSE 4340	3
	MATH 4370	3		EDSE 4341	3
	EDSE 4320	3			
	EDSE 4330	3			
	EDPD 4340	3			
	ELECTIVE***	CR			
	Only if needed to total 122 hrs.				

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 is recommended over MATH 1316, but MATH 1316 will be accepted.

** Fourth hour from MATH 2412 or 2413 will substitute for IDS 1071 to satisfy Core 90 requirement. Unless IDS 1071 is required, take a core course from 1st year/Spring.

*** Elective hour(s) only needed if IDS 1071 is not taken, MATH 1316 is taken for Core 20, and student does not also have credit for MATH 1314 (or other additional credit).