

West Texas A&M University
Advising Services
Degree Checklist
2020-2021

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

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

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

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
Communication (Core 10)		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Core 20)		
See University Core Requirements below	(3)	
Life and Physical Sciences (Core 30)		
See University Core Requirements below	(6)	
Language, Philosophy and Culture (Core 40)		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311, 2312**/, 2313, 2315**/, or 2371 Choose 1	3	
Creative Arts (Core 50)		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1	3	
American History (Core 60)		
HIST 1301, 1302, 2301, 2381 Choose 2	6	
Government/Political Science (Core 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Core 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3	
Component Area Option (Core 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* Statistics for the Sciences	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 must request an official degree plan (using the online [Degree Plan Request](#) form) in order to progress. Students who have questions about their degree plan should contact the office of the dean of the College of Engineering, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257).

WTAMU ADVISING SERVICES
2020-2021 Curriculum Guide

Major: Mathematics (Grades 7-12) Certification, B.S.

Major Code: 465

First Year																																																							
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Degree Total Hours 120

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 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Identified Marketable Skills:

Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities

Prerequisites/Important Sequences/Other degree Notes:

Note 1 - CORE: Math majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other care categories, they may select from any available options (see degree checklist). Apart from the major specific core requirements, there is no set order in which core courses must be taken.

Note 2 - MATH Electives: Select four courses from MATH 3311, 3340, 3342, 3343, 4340, 4362, and 3321 or 4361 (one not taken for 3321 or 4361 major requirement).

Note 3 - Elective: Elective hour(s) should only be 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).