

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2019-2020**

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

**NAME:** \_\_\_\_\_ **WT ID:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Mathematics**  
**School of Engineering, Computer Science and**  
**Mathematics**  
**Classroom Center, Room 420 (806)651-2540**

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

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>
<b>Communication (Core 10)</b>		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
<b>Mathematics (Core 20)</b>		
See University Core Requirements below	(3)	
<b>Life and Physical Sciences (Core 30)</b>		
See University Core Requirements below	(6)	
<b>Language, Philosophy and Culture (Core 40)</b>		
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	
<b>Creative Arts (Core 50)</b>		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 Choose 1	3	
<b>American History (Core 60)</b>		
HIST 1301, 1302, 2301, 2381 Choose 2	6	
<b>Government/Political Science (Core 70)</b>		
POSC 2305 and 2306	6	
<b>Social and Behavioral Sciences (Core 80)</b>		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3	
<b>Component Area Option (Core 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*, 1316*, 1324*, 2412*[3], or 2413*[3]	3	
<b>CORE 30</b> PHYS 1401*[3] and PHYS 1402*[3] OR PHYS 2425*[3] and 2426*[3]	6	
<b>CORE 90</b> ENGL 1302* or 2311*	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* 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 3325* Introduction to Proofs	3	
MATH 4341* Advanced Calculus	3	
<b>Take 21 semester hours from:</b> MATH 3311* Linear Algebra MATH 3321* Probability MATH 3340* Calculus III MATH 3342* Differential Equations I MATH 3343* Differential Equations II MATH 4310* Modern Algebra with Cryptography MATH 4340* Complex Variables I MATH 4361* Statistics for the Sciences MATH 4362* Introduction to Numerical Analysis	21	

CS 1315* Programming Fundamentals OR CIDM 1315 Programming Fundamentals	3	
MATH 3306**/*** Secondary Mathematics and Technology OR CS 1337, 1337L Introduction to Object-Oriented Programming ***	3	
MATH 4370* (MPS 4370) Senior Investigations OR MPS 4393* Math/Physical Science/Engineering Technology Honors	3	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b>		
Covered by requirements for major.		<b>OPTION</b>
<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 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.**