

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

**CC** This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at CC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

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

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

<b>CORE CURRICULUM COURSES: 42 HOURS ♦</b>		<b>HRS</b>	<b>CC</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]	<b>CC</b>	3	
<b>CORE 30</b>			
PHYS 1401*[3] and PHYS 1402*[3] OR PHYS 2425*[3] and 2426*[3]	<b>CC</b>	6	
<b>CORE 90</b>			
ENGL 1302* or 2311*	<b>CC</b>	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)	<b>CC</b>	0-4	
MATH 2413* Calculus I	<b>CC</b>	4	
MATH 2414* Calculus II	<b>CC</b>	4	
MATH 3325* Introduction to Proofs		3	
MATH 4341* Advanced Calculus		3	
<b>Take 21 semester hours from:</b>			
MATH 3311* Linear Algebra <b>CC</b>		21	
MATH 3321* Probability			
MATH 3340* Calculus III <b>CC</b>			
MATH 3342* Differential Equations I <b>CC</b>			
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			

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

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 Covered by requirements for major. <span style="float:right">OPTION</span></b>		
<b>ELECTIVES: 30-34 HOURS BY ADVISEMENT ♦</b>		
ADVANCED ELECTIVES Additional hours to provide a minimum of 39 advanced (3000- or 4000-level) hours.	6-9	
ELECTIVES (ANY LEVEL)	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.**