

West Texas A&M University
Advising Services
Degree Checklist
2021-2022

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

NAME: _____ WT ID: _____ DATE: _____

Mathematics
College of Engineering
Classroom Center, Room 420 (806)651-2540

| CORE CURRICULUM COURSES: 42 HOURS ♦ | | HRS | AC |
|--|----------|-----|----|
| 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, 2382 | 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 MAJOR REQUIREMENTS: 59-63 HOURS | | | |
| A grade of "C" or better must be earned in all courses required for major. | | | |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS • | | | |
| CORE 20 | | | |
| MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] | AC | 3 | |
| CORE 30 | | | |
| PHYS 1401*[3] and PHYS 1402*[3] | AC | 6 | |
| OR PHYS 2425*[3] and 2426*[3] | AC | | |
| CORE 90 | | | |
| ENGL 1302* or 2311* | AC | 3 | |
| CORE 90 | | | |
| PHYS 1401L[1] and 1402L[1] or 2425L[1] and 2426L[1] | AND | 3 | |
| IDS 1071[1], MATH 2412[1], or 2413[1] | | | |
| MATHEMATICS REQUIREMENTS: 44-48 HOURS | | | |
| MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20) | AC | 0-4 | |
| MATH 2413* Calculus I | AC | 4 | |
| MATH 2414* Calculus II | AC | 4 | |
| MATH 3311* Linear Algebra | | 3 | |
| MATH 3325* Introduction to Proofs | | 3 | |
| MATH 4341* Advanced Calculus | | 3 | |
| Take 18 semester hours from: | | | |
| MATH 3321* Probability | | 18 | |
| MATH 3340* Calculus III AC | | | |
| MATH 3342* Differential Equations I AC | | | |
| 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)

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|--|----|---------------|--|
| CS 1315* Programming Fundamentals OR CIDM 1315 Programming Fundamentals | AC | 3 | |
| MATH 3306**/** Secondary Mathematics and Technology OR CS 1337, 1337L Introduction to Object-Oriented Programming *** | AC | 3 | |
| MATH 4370* (MPS 4370) Senior Investigations OR MPS 4393* Math/Physical Science/Engineering Technology Honors | | 3 | |
| BACHELOR OF SCIENCE REQUIREMENTS | | OPTION | |
| Covered by requirements for major. | | | |
| ELECTIVES: 30-34 HOURS BY ADVISEMENT • | | | |
| ADVANCED ELECTIVES Additional hours to provide a minimum of 39 advanced (3000- or 4000-level) hours. | | 3-6 | |
| ELECTIVES (ANY LEVEL) | | 21-28 | |
| MINIMUM HOURS REQUIRED FOR DEGREE | | 120 | |

♦ 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 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid 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. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.