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: |
|-------|--------|-------|
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Computer Science—Mechanical Engineering Track Engineering and Computer Science ECS Building, Room 119 651-5257

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|---|---------------------|----|--|--|--|
| CORE CURRICULUM COURSES: 42 HOURS + | HRS | AC | | | |
| Communication (Code 10) | | | | | |
| ENGL 1301 Introduction to Academic Writing and Argumentation | 3 | | | | |
| COMM 1315, 1318, or 1321** | | | | | |
| Mathematics (20) | | | | | |
| See University Core Requirements below | | | | | |
| Life and Physical Sciences (30) See University Core Requirements below | | | | | |
| Language, Philosophy and Culture (40) | (6) | | | | |
| ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/***, 2313*, 2315*, or 2371 | 3 | | | | |
| ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI | | | | | |
| 1307, MUSI 1310; or THRE 1310 Choose 1 | 3 | | | | |
| American History (60) | | | | | |
| HIST 1301, 1302, 2301, 2381 Choose 2 | 6 | | | | |
| Government/Political Science (70) | | | | | |
| POSC 2305 and 2306 | 6 | | | | |
| Social and Behavioral Sciences (80) | | | | | |
| AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1 | 3 | | | | |
| Component Area Option (90) | | | | | |
| See University Core Requirements below | (6) | | | | |
| COMPUTER SCIENCE—MECHANICAL ENGINEERING TRACK MAJOR REQUIREMENTS: 94 HOURS • A grade of "C" or better must be earned in all courses required for major. • A grade of "C" or better is mandatory for all prerequisites listed for ECS courses required for Computer Science majors. | | | | | |
| A grade of "C" or better must be earned in all courses required for major A grade of "C" or better is mandatory for all prerequisites listed for ECS required for Computer Science majors. | | | | | |
| A grade of "C" or better must be earned in all courses required for major A grade of "C" or better is mandatory for all prerequisites listed for ECS required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS | | | | | |
| A grade of "C" or better must be earned in all courses required for major A grade of "C" or better is mandatory for all prerequisites listed for ECS required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20 MATH 2413*[3] Calculus I AC | | | | | |
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Bachelor of Science Degree BS.CS.MENG (307)

| CS 3372* Net-Centric Computing | | | | |
|---|---|--|--|--|
| CS 4325* Computer Architecture | | | | |
| CS 4340* Database Systems Use, Design and Implementation | | | | |
| CS 4385* Concurrency and Distributed Systems | | | | |
| CS 4390* Software Development & Systems Prog. | | | | |
| CS 4391* Software Development & Prof. Practice | | | | |
| REQUIRED MATH COURSES: 16 HOURS | | | | |
| MATH 2321* Discrete Structures I | 3 | | | |
| MATH 2322* Discrete Structures II | 3 | | | |
| MATH 2414* Calculus II AC | 4 | | | |
| MATH 3340* Calculus III | 3 | | | |
| MATH 3342* Differential Equations I | 3 | | | |
| ADDITIONAL REQUIREMENTS FOR MECHANICAL ENGINEERING TRACK: 18 HOURS | | | | |
| ENGR 1304* Engineering Graphics OR ENGR 2332* Mechanics of Materials I Choice depends upon choice of advanced MENG courses. | 3 | | | |
| ENGR 2301* Engineering Statics AC | 3 | | | |
| ENGR 2302* Engineering Dynamics | 3 | | | |
| ADVANCED MENG COURSE | | | | |
| ADVANCED MENG COURSE | | | | |
| ADVANCED MENG COURSES | | | | |
| TOTAL HOURS REQUIRED TO COMPLETE DEGREE | | | | |
| | | | | |

- ♦ 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.
- ** Recommended.
- *** 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.
- At This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at AC. 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.

NOTE: This is NOT a degree plan. After completing 30 hours, students are required 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 30 hours will not be allowed to progress without requesting a degree plan.