



UT Arlington Mechanical and Aerospace Engineering Department
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Major Information

This course list is based on the requirements for an associate of science (AS) degree at TCC. For UT Arlington degree requirements and recommended course flow, visit the departmental website listed above or contact the UT Arlington Departmental Advisor at the email listed above. This table is designed to assist those wishing to complete an AS at TCC and continue to a Bachelor of Science (BS) degree in engineering at UT Arlington. The course equivalencies are based on the major listed on this sheet, and equivalencies may not follow to a different major. Work with your UT Arlington and TCC advisors to determine the best plan for completing the two degrees. This information is effective 10/1/2011.

It is recommended that you begin working with a UT Arlington engineering advisor at least one year prior to transferring.

| | TCC Course Title | TCC Course Number | UTA Course Number |
|--------------|---|--|--|
| 1st Semester | English Composition I | ENGL 1301 | ENGL 1301 |
| | Calculus with Analytical Geometry I | MATH 2513 | MATH 1426 |
| | United States History to 1876 | HIST 1301 | HIST 1311 |
| | General Chemistry I | CHEM 1411 | CHEM 1441 ² |
| 2nd Semester | English Composition II | ENGL 1302 | ENGL 1302 |
| | Calculus with Analytical Geometry II | MATH 2414 | MATH 2425 |
| | United States History from 1876 | HIST 1302 | HIST 1312 |
| | General Chemistry II | CHEM 1412 | CHEM 1442 ² |
| | Business and Professional Communication | SPCH 1321 | COMM 3302 ³ |
| 3rd Semester | Calculus with Analytical Geometry III | MATH 2315 | MATH 2326 |
| | Principles of Macroeconomics | ECON 2301 | ECON 2305 |
| | United States Government | GOVT 2305 | POLS 2311 |
| | Technical Writing | ENGL 2311 | COMM 3302 ³ |
| | Fine Arts Elective | ART 1301, DANC 2303, DRAM 1310, or MUSI 1306 | ART 1301, DNCE 1300, THEA 1343, or MUSI 1300 |
| 4th Semester | Texas State and Local Government | GOVT 2306 | POLS 2312 |
| | Engineering Physics I | PHYS 2425 | PHYS 1443 |
| | Literature (Humanities) Elective | ENGL 2322, ENGL 2327, or ENGL 2332 | ENGL 2319, ENGL 2329, or ENGL 2309 |
| | Circuit Analysis | ENGR 2305 | EE 2320 |
| | Engineering Graphics (ProE version) | ENGR 1304 | MAE 1350 |

Notes

¹This degree plan assumes that a student is "calculus ready", that is, the student is ready for Calculus I based on placement testing at TCC or at UT Arlington. If the student is not calculus ready, please consult a UT Arlington academic advisor **before** registering for courses at TCC.

²Both CHEM 1411 and CHEM 1412 at TCC together give credit for CHEM1465 (Chemistry for Engineers) at UT Arlington.

³Students who wish to receive credit for COMS 3302 **must take both** SPCH 1321 and ENGL 2311 at TCC. This information is for engineering majors only. Courses may transfer differently if you change your major.

This degree track at TCC is based on completion of the AS Degree at TCC prior to entering UT Arlington. The AS degree requires the following additional coursework which will not apply to the BS degree in an engineering field: PHED 1164 and COSC 1401.