



AS – Engineering to BS – Mechanical Engineering Technology 2023-2024 Transfer Pathway



| AS Degree Requirements | | | | | | | |
|--|--|--|-----|-----------|-----------|------------------------------------|-----------|
| Central Texas College | | | | | | | |
| CTC | TAMUCT | Course Name | SCH | CTC | TAMUCT | Course Name | SCH |
| ENGL 1301 | CORE 010 | Composition I | 3 | ENGL 2311 | CORE 090 | Technical & Business Writing | 3 |
| HIST 1301 | CORE 060 | United States History I | 3 | CHEM 1411 | CORE 030 | General Chemistry I | 4 |
| SPCH 1315 SPCH 1318 or SPCH 1321 | SPCH 1315 SPCH 1318 or SPCH 1321 | Public Speaking Interpersonal Communication or Business and Professional Communication | 3 | ENGR 2301 | ENGR 2301 | Engineering Mechanics - Statics | 3 |
| CORE 050 | CORE 050 | Creative Arts Core | 3 | ENGR 2305 | ENGR 2305 | Electrical Circuits I | 3 |
| ENGR 1201 | ENGR 1201 | Introduction to Engineering | 2 | GOVT 2306 | CORE 070 | Texas Government | 3 |
| HIST 1302 | CORE 060 | United States History II | 3 | ENGR 2332 | ENGR 2332 | Mechanics of Materials | 3 |
| PHYS 2425 | PHYS 1401 | College Physics I | 4 | CORE 040 | CORE 040 | Language/Philosophy/Culture Core | 3 |
| MATH 2413 | CORE 020 | Calculus I | 4 | ENGR 2302 | ENGR 2302 | Engineering Mechanics - Dynamics | 3 |
| GOVT 2305 | CORE 070 | Federal Government | 3 | CORE 080 | CORE 080 | Social and Behavioral Science Core | 3 |
| MATH 2414 | CORE 090 | Calculus II | 4 | | | | |
| Subtotal | | | | | | | 60 |

| Additional Lower-Level Degree Requirements | | | |
|--|--------------------------------------|---|----------|
| Central Texas College | | | |
| Central Texas College | Texas A&M University - Central Texas | Course Name | SCH |
| ENGR 1304 ^{1,2} | ENGR 1304 | Engineering Graphics (or Any ENGT Elective) | 3 |
| PHYS 1402 ^{1,2} | PHYS 1402 | College Physics II | 4 |
| Subtotal | | | 7 |

| Upper-Level Degree Requirements | | | | | |
|--------------------------------------|--------------------------------|-----|----------------------------|-------------------------------|------------|
| Texas A&M University - Central Texas | | | | | |
| TAMUCT | Course Name | SCH | TAMUCT | Course Name | SCH |
| ENGT 3305 | Computer Aided Problem Solving | 3 | ENGT 4325 | Senior Design A | 3 |
| ENGT 3306 | Engineering Ethics | 3 | ENGT 4307 | Engineering Economics | 3 |
| ENGT 3310 | Applied Thermodynamics | 3 | ENGT 4421 | Solid Modeling | 4 |
| ENGT 3311 | Fluid Mechanics | 3 | ENGT 3320 | Quality Control Technology | 3 |
| ENGT 3302 | Manufacturing Processes | 3 | ENGT 4326 | Senior Design B | 3 |
| ENGT 3312 | Heat Transfer | 3 | ENGT 4422 | Electrical Power and Controls | 4 |
| ENGT 3213 | Thermal Fluids Lab | 2 | ENGT Elective ³ | ENGT Elective | 9 |
| ENGT 3415 | Material Science | 4 | | | |
| Subtotal | | | | | 53 |
| Total | | | | | 120 |

Notes/Comments

Texas A&M University - Central Texas (TAMUCT) only offers upper-level courses (3xxx-5xxx labeled courses), all lower-level courses (1xxx-2xxx labeled courses) will need to be completed at Central Texas College (CTC). A minimum of 120 semester credit hours is required for all baccalaureate degrees. Pathways may exceed 120 semester credit hours as some courses necessary for the associate degree are transferable but not applicable to the baccalaureate degree. For help with pathway planning, students should speak with an [academic advisor](#).

1. The AS does not fulfill all the lower-level courses required for the undergraduate degree. Students will need to complete these remaining lower-level courses at CTC. Please discuss the consortium agreement procedure with a TAMUCT [financial aid advisor](#).
2. Any-level electives may be taken at TAMUCT or CTC. Please consult with an academic advisor prior to selecting any-level electives.
3. ENGT Elective is defined as the following courses: Upper-Level ENGT Electives, MATH 2320, MATH 3306, MATH 3332, MATH 3360, MATH 3370, BUSI 3311, MGMT 3301 or MGMT 4370. Other ENGT electives can be added with approval from ENGT advisor.