



## AS – Engineering to BS – Mechanical Engineering Technology 2022-2023 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   | PHYS 1401 | CORE 030  | College Physics I (Lecture + Lab)               | 4         |
| SPCH 1315, 1318, or 1321 | CORE 010  | Public Speaking, Interpersonal Communication or Business & Professional Communication | 3   | ENGR 2301 | ENGR 2301 | Engineering Mechanics I – Statics               | 3         |
| CORE 050                 | CORE 050  | Creative Arts Core Selection                                                          | 3   | ENGR 1304 | ENGR 1304 | Engineering Graphics 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         |
| CHEM 1411                | CORE 030  | General Chemistry I (Lecture + Lab)                                                   | 4   | CORE 040  | CORE 040  | Language, Philosophy and Culture Core Selection | 3         |
| MATH 2413                | CORE 020  | Calculus I                                                                            | 4   | ENGR 2302 | ENGR 2302 | Engineering Mechanics II – Dynamics             | 3         |
| GOVT 2305                | CORE 070  | Federal Government                                                                    | 3   | CORE 080  | CORE 080  | Social and Behavioral Science Core Selection    | 3         |
| MATH 2414                | CORE 090  | Calculus II                                                                           | 4   |           |           |                                                 |           |
| <b>Subtotal</b>          |           |                                                                                       |     |           |           |                                                 | <b>60</b> |

| Additional Lower-Level or Upper-Level Degree Requirements     |                                      |                                   |          |
|---------------------------------------------------------------|--------------------------------------|-----------------------------------|----------|
| Central Texas College or Texas A&M University – Central Texas |                                      |                                   |          |
| Central Texas College                                         | Texas A&M University - Central Texas | Course Name                       | SCH      |
| PHYS 1402 <sup>1</sup>                                        | Degree Requirement                   | College Physics II (Lecture+ Lab) | 4        |
| ENGR 2305 <sup>1</sup>                                        | Degree Requirement                   | Electrical Circuits I (Lecture)   | 3        |
| <b>Subtotal</b>                                               |                                      |                                   | <b>7</b> |

| Upper-Level Degree Requirements      |                                |     |                                      |                               |            |
|--------------------------------------|--------------------------------|-----|--------------------------------------|-------------------------------|------------|
| Texas A&M University - Central Texas |                                |     |                                      |                               |            |
| Texas A&M University - Central Texas | Course Name                    | SCH | Texas A&M University - Central Texas | 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   | Any ENGT Elective <sup>2,3</sup>     | Any ENGT Elective             | 9          |
| ENGT 3415                            | Material Science               | 4   |                                      |                               |            |
| <b>Subtotal</b>                      |                                |     |                                      |                               | <b>53</b>  |
| <b>Total</b>                         |                                |     |                                      |                               | <b>120</b> |

### Notes/Comments

Texas A&M-Central Texas is an upper-level institution offering 3xxx-5xxx level courses. All 1xxx-2xxx level courses must be completed at a different institution. For help with pathway planning, student should speak with an [academic advisor](#). This guide is intended for planning and visualization purposes only.

1. Not all Degree Requirement courses are completed with the AS. Student will need to complete these remaining lower-level courses at the community college. Please consult a TAMUCT financial aid counselor regarding the consortium agreement process.
2. Any-level electives may be taken at either at Texas A&M University-Central Texas or another institution. Please consult an academic advisor prior to selecting any-level electives.
3. "Any 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.