



# COLLEGE OF TECHNOLOGY

## Bachelor of Science, Mechanical Engineering Technology

### Four-Year Academic Map 2019-2020

| YEAR 1 | Semester 1 Fall  |                                    |          | Semester 2 Spring |                                |          | Total |
|--------|------------------|------------------------------------|----------|-------------------|--------------------------------|----------|-------|
|        | <b>MECT 1364</b> | <b>Materials &amp; Processes I</b> | <b>3</b> | <b>MECT 1330</b>  | <b>Engineering Graphics</b>    | <b>3</b> |       |
|        | <b>MATH 1330</b> | <b>Pre-calculus</b>                | <b>3</b> | <b>MATH 1431</b>  | <b>Calculus I</b>              | <b>4</b> |       |
|        | HIST 1377        | The United States 1877             | 3        | HIST 1378         | The United States since 1877   | 3        |       |
|        | CHEM1301/1101    | Foundations of Chemistry & Lab     | 4        | PHYS 1301/1101    | Intro to General Physics & Lab | 4        |       |
|        | ENGL 1303        | First Year Writing I               | 3        | ENGL 1304         | First Year Writing II          | 3        |       |
|        | Semester Hours   |                                    |          | 16                | Semester Hours                 |          | 17    |

| YEAR 2 | Semester 1 Fall  |                                   |          | Semester 2 Spring |                                |   | Total |
|--------|------------------|-----------------------------------|----------|-------------------|--------------------------------|---|-------|
|        | <b>MECT 2354</b> | <b>Introduction To Mechanics</b>  | <b>3</b> | MECT 3360         | Automated Manufacturing Sys    | 3 |       |
|        | MATH 1432        | Calculus II                       | 4        | ELET 2307         | Electrical-Electronic Circuits | 3 |       |
|        | ELET 2300        | Introduction to C++ Programming   | 3        | CORE              | Creative Arts                  | 3 |       |
|        | PHYS 1302/1102   | Intro to General Physics II & Lab | 4        | CORE              | Social & Behavioral Science    | 3 |       |
|        | POLS 1336        | US & TX Constitutions & Politics  | 3        | POLS 1337         | US Government                  | 3 |       |
|        | Semester Hours   |                                   |          | 17                | Semester Hours                 |   | 15    |

| YEAR 3 | Semester 1 Fall       |  |          | Semester 2 Spring |                               |          | Total |
|--------|-----------------------|--|----------|-------------------|-------------------------------|----------|-------|
|        | <b>MECT 3551/3155</b> | <b>Strength of Materials &amp; Lab</b>       | <b>4</b> | <b>MECT 3358</b>  | <b>Dynamics of Mechanisms</b> | <b>3</b> |       |
|        | <b>MECT3318/3118</b>  | <b>Fluid Mechanic Applications &amp; Lab</b> | <b>4</b> | <b>MECT 3365</b>  | <b>Computer-Aided Design</b>  | <b>3</b> |       |
|        | <b>MECT 3331</b>      | <b>Applied Thermodynamics</b>                | <b>3</b> | MECT 3342         | Elements of Plant Design      | 3        |       |
|        | TLIM 3363             | Technical Communication                      | 3        | MECT 3367         | Quality Control Technology    | 3        |       |
|        | Elective              | Free Elective                                |          | TLIM 3340         | Org Leadership & Super        | 3        |       |
|        | Semester Hours        |  |          | 17                | Semester Hours                |          | 15    |

| YEAR 4 | Semester 1 Fall  |                              |          | Semester 2 Spring |                                |   | Total |
|--------|------------------|------------------------------|----------|-------------------|--------------------------------|---|-------|
|        | <b>MECT 4275</b> | <b>Senior Design Project</b> | <b>2</b> | MECT 4276         | Senior Design Project          | 2 |       |
|        | MECT 4372/4172   | Materials Technology & Lab   | 4        | MECT 4188         | Ethics in Engineering          | 1 |       |
|        | MECT 4331        | Heat Transfer App            | 3        | CORE              | Language, Philosophy & Culture | 3 |       |
|        | MECT Elective    |                              | 3        | MECT Elective     |                                | 3 |       |
|        | MECT Elective    |                              | 3        | MECT Elective     |                                | 3 |       |
|        | Semester Hours   |                              |          | 15                | Semester Hours                 |   | 12    |
|        |                  |                              |          |                   |                                |   | 124   |

Courses in Bold are important prerequisites and should be taken as early as students are able. Students should meet with their academic advisor to formulate their own plan.