

COLLEGE OF TECHNOLOGY

Bachelor of Science, Mechanical Engineering Technology

Four-Year Academic Map 2023-2024

| YEAR 1 | Semester 1 Fall | | | Semester 2 Spring | | | Total |
|--------|------------------|------------------------------------|----------|-----------------------|------------------------------------|----------|-------|
| | MECT 1364 | Materials & Processes I | 3 | MECT 1330 | Engineering Graphics | 3 | |
| | MATH 2312 | Precalculus | 3 | MATH 2413 | Calculus I | 4 | |
| | HIST 1301 | U.S. to 1877 | 3 | HIST 1302 | U.S. since 1879 | 3 | |
| | CHEM 1305/1105 | Foundations of Chemistry I & Lab | 4 | PHYS 1301/1101 | College Physics I & Lab | 4 | |
| | ENGL 1301 | First Year Writing I | 3 | ENGL 1302 | First Year Writing II | 3 | |
| | Semester Hours | | | 16 | Semester Hours | | 17 |

| YEAR 2 | Semester 1 Fall | | | Semester 2 Spring | | | Total |
|--------|-----------------------|-------------------------------------|----------|-----------------------|--|----------|-------|
| | MECT 2354 | Introduction To Mechanics | 3 | MECT 3355/3155 | Strength of Materials & Lab | 4 | |
| | MATH 2414 | Calculus II | 4 | MECT 3318/3118 | Fluid Mechanic Applications & Lab | 4 | |
| | ELET 2300 | Introduction to C++ Program | 3 | MECT 3360 | Automated Manufacturing Sys | 3 | |
| | PHYS 1302/1102 | College Physics II & Lab | 4 | ELET 2307 | Electrical-Electronic Circuits | 3 | |
| | GOVT 2306 | US & Texas Constitution & Politics | 3 | GOVT 2305 | US Government | 3 | |
| | Semester Hours | | | 17 | Semester Hours | | 17 |

| YEAR 3 | Semester 1 Fall | | | Semester 2 Spring | | | Total |
|--------|------------------|-------------------------------|----------|-------------------|---------------------------------|----------|-------|
| | MECT 3358 | Dynamics of Mechanisms | 3 | MECT 3365 | Computer-Aided Design | 3 | |
| | MECT 3331 | Applied Thermodynamics | 3 | MECT 3342 | Elements of Plant Design | 3 | |
| | CORE | Social & Behavioral Science | | MECT 3367 | Quality Control Technology | 3 | |
| | TLIM 3363 | Technical Communication | 3 | TLIM 3340 | Org Leadership & Supervision | 3 | |
| | CORE | Creative Arts | 3 | MECT Elective | | 3 | |
| | Semester Hours | | | 17 | Semester Hours | | 15 |

| YEAR 4 | Semester 1 Fall | | | Semester 2 Spring | | | Total |
|--------|------------------|------------------------------|----------|-------------------|--------------------------------|---|-------|
| | MECT 4275 | Senior Design Project | 2 | MECT 4276 | Senior Design Project | 2 | |
| | MECT 4372/4172 | Materials Technology & Lab | 4 | MECT 4188 | Ethics in Engineering | 1 | |
| | MECT 4331 | Heat Transfer Applications | 3 | CORE | Language, Philosophy & Culture | 3 | |
| | MECT Elective | | 3 | MECT Elective | | 3 | |
| | MECT Elective | | 3 | Elective | Free 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.