

# MECHANICAL ENGINEERING TECHNOLOGY

## Sample Four-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

**Must earn at least a grade of "C" in each course except for most University Core courses.**

### FRESHMAN YEAR

#### FALL

MATH 1710, Calculus I (see note 1)	4
CHEM 1410 or 1415, Chemistry (see note 2)	3
CHEM 1430 or 1435, Chemistry Lab (see note 2)	1
ENGR 1030, Technological Systems	3
ENGR 1304, Engineering Graphics	3
Communication Core course	<u>3</u>
Total Hours	17

#### SPRING

MATH 1720, Calculus II (MATH 1710)	3
PHYS 1710, Mechanics (MATH 1710)	3
PHYS 1730, Mechanics Lab (MATH 1710)	1
TECM 2700, Tech. Writing (Communication Core)	3
University Core course	3
University Core course	<u>3</u>
Total Hours	16

### SOPHOMORE YEAR

#### FALL

PHYS 2220, E. & M. (MATH 1720, PHYS 1710, 1730)	3
PHYS 2240, E. & M. Lab (MATH 1720, PHYS 1710, 1730)	1
ENGR 2301, Statics (PHYS 1710, 1730)	3
CSCE 1030, Computer Science I (MATH 1650)	4
University Core course	3
University Core course	<u>3</u>
Total Hours	17

#### SPRING

ENGR 2302, Dynamics (ENGR 2301, MATH 1720)	3
ENGR 2332, Mechanics of Materials (ENGR 2301)	4
ENGR 2405, Circuit (MATH 1720, PHYS 2220, 2240)	3
ENGR 2415, Circuit Lab (MATH 1720, PHYS 2220, 2240)	1
University Core course	3
University Core course	<u>3</u>
Total Hours	17

### JUNIOR YEAR

#### FALL

ENGR 3450, Materials (PHYS 1710, CHEM Reqt.)	4
MEET 3940, Fluid Mechanics (ENGR 2302, MATH 1720)	3
MEET 3990, Thermo. (ENGR 2332, CHEM Reqt.)	3
MFET 3110, Mach. Principles & Processes (MATH 1650)	<u>3</u>
Total Hours	13

#### SPRING

ELET 3980, Digital Controls (MATH 1650 or higher)	3
MEET 3650, Design of Mech. Components (ENGR 2332)	3
MFET 4190, Quality Assurance (MATH 1720)	3
MFET 4210, CAD/CAM System Operations (see note 3)	3
Advanced Technical Elective	<u>3</u>
Total Hours	15

### SENIOR YEAR

#### FALL

MEET 4050, Mechanical Design (MEET 3650)	3
MEET 4350, Heat Transfer Appl (MEET 3940, 3990)	3
MEET 4780, Senior Design I (see note 4)	1
MFET 4200, Engineering Costs Analysis (MATH 1720)	3
Advanced Technical Elective	3
University Core course	<u>3</u>
Total Hours	16

#### SPRING

MEET 4790, Senior Design II (MEET 4780)	3
MEET 4360, Exper. Thermal Sci. (MEET 3940, 3990, 4350)	3
Advanced Technical Elective	3
Advanced Technical Elective	2
Technical Elective course	<u>3</u>
Total Hours	14

### Notes:

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of "C" or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra, or placement into a higher level math course as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 3: MFET 4210 requires MFET 3110, ENGR 1304, & completion of all MATH, PHYS, & CHEM requirements as prerequisite.

Note 4: MEET 4780 requires completion of MFET 4210 and completion of or concurrent enrollment in MEET 4050 and MEET 4350.

**Must earn at least a grade of "C" & a minimum 2.5 GPA in Communications Core, TECM 2700, MATH 1710, PHYS 1710, PHYS 1730, ENGR 1304, & ENGR 2301 as foundations to enroll in advanced courses.**

**This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.**