

# FME - FACILITIES MANAGEMENT AND ENGINEERING

**FME 101** 3 credit hours (lecture: 3 | lab: 0)

## Introduction to Facilities Management & Engineering

Course presents overview of practice and skills needed for facilities management and facilities engineering. Content includes general discussion general of areas in which a facilities manager or facilities engineer will need to develop competency.

*Delivery mode: Face-to-Face | Online*

**FME 105** 4 credit hours (lecture: 3 | lab: 2)

## Blueprint Reading

Course presents multiview projections; isometrics; scales; standards; free-hand and mechanical drawings; electrical, piping and sheet metal drawings; and reading of schematic symbols.

*Delivery mode: Face-to-Face*

Fee: \$25

**FME 107** 4 credit hours (lecture: 3 | lab: 2)

## Blueprint Reading For Bldg Trades

Course concentrates on language of architectural construction documents. Content includes visualization; sections, details and schedules; structural drawings; specifications and building codes; heating, ventilation, air conditioning systems; plumbing systems; electrical systems; free-hand mechanical sketchings (board and on-site) and verbal and written communication.

*Delivery mode: Face-to-Face*

Fee: \$25

**FME 110** 3 credit hours (lecture: 3 | lab: 0)

## Safety Program Organ & Management

*Delivery mode: Face-to-Face*

**FME 120** 3 credit hours (lecture: 3 | lab: 0)

## DC and AC Circuits

*Delivery mode: Face-to-Face*

**FME 125** 3 credit hours (lecture: 3 | lab: 0)

## Boiler Operation and Care

*Delivery mode: Face-to-Face*

**FME 130** 3 credit hours (lecture: 3 | lab: 0)

## Materials

*Delivery mode: Face-to-Face*

**FME 135** 3 credit hours (lecture: 3 | lab: 0)

## Power Transmission

*Delivery mode: Face-to-Face*

**FME 201** 4 credit hours (lecture: 4 | lab: 0)

## Mechanical, Electrical and Security Systems in Buildings

Course presents overview of the electrical and mechanical systems of buildings. Content includes systems, and energy management; review of mechanical systems, such as HVAC, refrigeration, plumbing, and fire protection; electrical and mechanical building codes; indoor air quality, communications, life safety and security systems.

**Prerequisite:** FME 101.

*Delivery mode: Face-to-Face*

Fee: \$30

**FME 215** 3 credit hours (lecture: 3 | lab: 4)

## General Laboratory

*Delivery mode: Face-to-Face*

**FME 220** 2 credit hours (lecture: 2 | lab: 0)

## Preventive Maintenance

*Delivery mode: Face-to-Face*

**FME 225** 3 credit hours (lecture: 3 | lab: 0)

## Principles Of Lubrication

*Delivery mode: Face-to-Face*

**FME 230** 3 credit hours (lecture: 3 | lab: 0)

## Safety

*Delivery mode: Face-to-Face*

**FME 231** 3 credit hours (lecture: 3 | lab: 0)

## Troubleshooting Skills

*Delivery mode: Face-to-Face*

**FME 232** 3 credit hours (lecture: 3 | lab: 0)

## Measurements And Instruments

*Delivery mode: Face-to-Face*

**FME 233** 3 credit hours (lecture: 3 | lab: 0)

## Industrial Electronics

*Delivery mode: Face-to-Face*

**FME 234** 2 credit hours (lecture: 2 | lab: 0)

## Facilities Management

*Delivery mode: Face-to-Face*

**FME 240** 3 credit hours (lecture: 3 | lab: 0)

## Energy Management and DDC Controls

Course provides detailed examination of energy management. Content includes specific focus on building automation systems for energy management using DDC controls for HVAC, fire and security systems; and control of various equipment remotely from a control computerized system and DDC controls.

**Prerequisite:** AHR 101 or FME 101 or consent of department chair.

*Delivery mode: Face-to-Face | Online*

Fee: \$35

**FME 250** 3 credit hours (lecture: 3 | lab: 3)

## Electric Motors And Controls

*Delivery mode: Face-to-Face*

Fee: \$10