

# FACILITY MANAGEMENT ENGINEERING (FME)

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**FME 122 - Electricity. 6 Credits.**

Offered spring. Offered at Missoula College. The electrical laws and principles pertaining to DC and AC circuits. Includes current, voltage, resistance, power, load, panels, feeders, lamps, motors, and fuses. Introduction to wiring methods and materials in conformance with the National Electric Code (NEC). Includes installation and replacement of light fixtures, heaters, GFCI's, switches, receptacles, raceways and electrical thermostats. Upon successful completion, students will receive the NCCER certification for Electricity

**FME 123 - Carpentry. 6 Credits.**

Offered autumn. Offered at Missoula College. Application of carpentry principles and techniques. Construction and maintenance of foundation, floor, wall, ceiling, and roof systems. Includes safe use of tools and materials common to the industry. Additional topics are painting, masonry, insulation, and ventilation of commercial buildings.

**FME 127 - High/Low Pressure Boilers. 3 Credits.**

Offered autumn. Offered at Missoula College. The fundamentals of high/low pressure boiler operation and maintenance. Covers steam, feed-water, fuel, and draft systems. Includes boiler water treatment and hot water heating systems. Introduces safe mechanical operating procedures used in the industry. This course allows students to sit for the Third Class Boiler License Exam with 40 hours of hands-on training verses the 960 hours required by the state.

**FME 128 - Plumbing & Maintenance. 3 Credits.**

Offered autumn. Offered at Missoula College. Maintenance principles pertaining to lawns, groundcovers, trees, swimming pools, and plumbing equipment. Emphasis is placed on safe application of chemicals; maintenance frequency; and the identification and safe uses of associated tools and materials.

**FME 130 - Heating & Air Conditioning. 6 Credits.**

Offered spring. Offered at Missoula College. The fundamentals of heating, ventilating, and air conditioning. Covers heating and refrigeration cycles, gas furnaces, refrigerants, system evacuation and charging, and components used in associated systems. Introduces the basic mechanical service procedures used in the industry. Students will also sit for the Universal 608 EPA exam and receive the NCCER certification for Heating, Ventilation, Air conditioning and Refrigeration (HVAC).

**FME 191 - Special Topics. 1-6 Credits.**

(R-6) Offered at Missoula College. Experimental offerings of visiting professors, experimental offerings of new courses, or one time offerings of current topics.

**FME 192 - Independent Study. 1-6 Credits.**

(R-6) Offered at Missoula College. Course material appropriate to the needs and objectives of the individual student.