Please attach/submit additional documents as needed to fully complete each section of the form.

I. DEPARTMENT / PROGRAM

Industrial Technology/Building Maintenance (Facility Management Engineering)

II. SUMMARY

Building Maintenance/Facility Management, provides students with the skills and certifications necessary to manage facilities and direct those that perform the duties associated with it. Two courses within the program pertain to Air Conditioning and Refrigeration. One is the HVAC course and the other is Electricity which teaches codes and skills associated with circuit installation and troubleshooting. I have been asked on many occasions by local contractors and suppliers if Missoula College offers any programs for an HVAC Technician. After a little research, it seems that no such courses exist in the entire state or surrounding areas since Billings closed their program (Flathead offers something online). The interest seems to be for the Technical skills only and when I explain the entire FME course requirements, potential attendees simply do not have the time to attend classes for that period of time and still work.

III. ENDORSEMENTS AND APPROVALS

Requestor: 
Phone / Email: 
Program Chair: 
*Other Affected Programs:

Signature Date 10/22/15
Signature Date 10/22/15
Signature Date 10/22/15
Signature Date 10/22/15

Dean:

* Are affected because: (a) required courses incl. prerequisites or corequisites, (b) perceived overlap in content areas, or (c) cross-listing of coursework

IV. TYPE OF PROGRAM MODIFICATION

☐ Major ☐ Minor ☐ Option ☐ Teaching major / minor

☒ Other, Please describe: Certificate of Technical Skills in Heating, Ventilation, Air Conditioning and Refrigeration (HVAC)
V. CATALOG LANGUAGE

Attach the current catalog language with the proposed changes clearly identified.

Proposed changes to the current course have been submitted to the ASCRC. Requested language for this CTS is as follows.....

Certificate of Technical Skills

Heating Ventilation Air Conditioning and Refrigeration (HVAC) 12cr

BME 130T - Heating & Air Conditioning - 6cr

Offered Fall. 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.

BME 122T - Electricity - 6cr

Offered Fall. 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, electrical thermostats and components.

- Students are awarded a Certificate of Technical Skills in HVAC.
- The National Center for Construction Education and Research (NCCER) certification in HVAC.
- The National Center for Construction Education and Research (NCCER) certification in Electricity.
- Be prepared and sit for the EPA 608 Universal Certification.

Contact William Hillman, Program Director, at 406-243-7645 or william.hillmann@umontana.edu for more information.

VI. JUSTIFICATION

I am proposing a Certificate of Technical Skills in Heating Ventilation Air Conditioning and Refrigeration to be offered at the same time as my current classes to those that are presently working in the field and/or require further skills to advance in their positions. This would also accommodate high school and other students that may want to start their own business in the field. Upon completion, these students could/would be referred to a program on the East or Main Campus such as Marketing and Sales or an Entrepreneurship program for example.

VII. SUBMISSION

After all signatures have been obtained, submit original, and an electronic file to the Faculty Senate Office, UH 221. An electronic copy of the original signed form is acceptable.