## Curriculum Committee Proposal Summary 10/22/2015

Department: PES

## Program Modification

## Applied Mechanical Engineering: 3453

## Degree Type: <br> BS

Modified Program Name: Mechanical Engineering Technology
Modified Program Name: MET
Revision to program sheet: Yes $\downarrow$ No
Description of modification:
Change the name of the Bachelors of Science in Applied Mechanical Engineering to Mechanical Engineering Technology

## Justification:

Mechanical Engineering Technology was originally the name of the program. The Accreditation Board for Engineering and Technology (ABET), our accrediting body, suggested the change in name with the idea that they would visit and accredit the program based on the newer name. ABET's board has not moved to allow such a name and as such will not schedule an accreditation visit. Due to the current policy, we are requesting the name change back to Mechanical Engineering Technology so an accrediting visit can be conducted during the fall of 2016.

The other program sheet changes were to use the course names as shown in the catalog.

| Revision to SLOs: | Yes $\square$ | No $\checkmark$ |
| :--- | :--- | :--- |
| Other changes: | Yes $\checkmark$ | No $\square$ |

As stated in the justification above, ABET will not accredit the program without a name change.
Discussions with affected departments:
NA
Proposed by: Scott Kessler
Director of Teacher Education Signature:
Expected Implementation:

## COLORAD. MESA Degree: Bachelor of Science

U N I V EMajor:


#### Abstract

About This Major . . . The objective of the Applied Mechanieal EngineeringMechanical Engineering Technology Program is to provide the knowledge necessary to apply state-of-the-art techniques to design and build products and systems to meet the current and future needs of society. The Bachelor of Science Degree in Applied Mechanieal EngineeringMechanical Engineering Technology is designed for a student who is doer or implementer - one who is able to apply mathematics, the natural and engineering sciences, engineering principles, and current engineering practices to the solution of design problems and to the operation and testing of mechanical systems.

The Applied Mechanical EngineeringMechanical Engineering Technology graduate applies established procedures that use current state-of-the-art techniques to work with mechanical systems. Laboratory courses are an integral component of the Applied Mechanical EngineeringMechanical Engineering Technology program and are designed to develop student competence to apply experimental design methods, as well as provide a "hands-on" approach to designing and building products and systems to meet the current and future needs of society. The employment of AMEMETs in manufacturing related areas should increase as the demand for improved machinery and machine tools grows and industrial machinery and processes become increasingly complex. Emerging technologies in biotechnology, and nanotechnology will create new job opportunities for AMEMETs. In addition to job openings from growth, many openings should result from the need to replace workers who leave the labor force. For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html


All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply the knowledge, techniques, skills, and modern tools of engineering to engineering problems. (Critical Thinking/Applied Learning)
2. Apply knowledge of mathematics, science, and technology to engineering problems. (Quantitative Fluency)
3. Effectively use oral, written, and graphical communication skills to address both technical and non-technical audiences. (Communication Fluency)
4. Adplv the ethical standards of the discidline to engineering problems. (Sbecialized Knowledge)

NAME:
STUDENT ID \#:
LOCAL ADDRESS AND PHONE NUMBER:
$\qquad$

I, (Signature) $\qquad$ , hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.
Signature of Advisor

Date
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Date
Signature of Department Head
$\overline{\text { Date }} 20$

Signature of Registrar Date

## DEGREE REQUIREMENTS:

- 126 semester hours total (Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher).
- 40 upper division credits (A minimum of 15 taken within the major at CMU).
- 2.00 cumulative GPA or higher in all CMU coursework.
- 2.00 cumulative GPA or higher in coursework toward the major content area.
- Pre-collegiate courses (usually numbered below 100 ) cannot be used for graduation.
- When filling out the program sheet a course can be used only once.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- Essential Learning Capstone should be completed between 45 and 75 hours.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.
- A student must receive a "C" or higher in any class that is a pre-requisite for a subsequent class.

ESSENTIAL LEARNING REQUIREMENTS (31 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

Course No Title
Sem.hrs Grade Term
English (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)
$\begin{array}{lll}\text { ENGL 111 } & \text { English Composition } & 3 \\ \text { ENGL } 112 & \text { English Composition } & 3\end{array}$
Math (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)
MATH 135 Engineering Calculus I 4*
*3 credits apply to the Essential Learning requirements and 1 credit applies to Foundation Courses

Humanities (3 semester hours)

Social and Behavioral Sciences (6 semester hours)


Course No Title
Sem.hrs Grade Term/Trns
Natural Sciences (7 semester hours, one course must include a lab)
PHYS 131 $\qquad$ 4
PHYS 131L $\qquad$ 4
1
CHEM 131 $\qquad$ 4*
*2 credits apply to the Essential Learning requirements and 2 credits apply to Foundation Courses

## History (3 semester hours)

HIST $\qquad$
$\qquad$
$\qquad$
Fine Arts (3 semester hours)

WELLNESS REQUIREMENT (2 semester hours)
KINE $100 \quad$ Health and Wellness 1 KINA 1 $\qquad$ ——

ESSENTIAL LEARNING CAPSTONE (4 semester hours)

| ESSL 290 | Maverick Milestone <br> (see English \& math pre-reqs) | 3 |
| :--- | :--- | :--- |
| ESSL 200 | Essential Speech (co-requisite) | 1 |

FOUNDATION COURSES (13 semester hours) Must complete with a "C" or higher.
CHEM 131 $\qquad$ 4* $\qquad$
*2 credits apply to the Essential Learning requirements and 2 credits apply to foundation courses

| CHEM 131L | 1 |
| :--- | :---: |
| MAMT 102 Intro to Machine Shop | 1 |
| MATH 135 | Engineering Calculus I |
| *3 credits apply to the Essential Learning requir |  |
| credit applies to foundation courses |  |
| MATH 136 Engineering Calculus II | 4 |
| MAMT 105 Print Reading \& Sketching | 2 |
| MAMT 106 Geometrical Dim \& Tolerancing 2 |  |


*3 credits apply to the Essential Learning requirements and 1 credit applies to foundation courses
MATH 136 Engineering Calculus II 4
MAMT 105 Print Reading \& Sketching 2

APPLIED MECHANIGAL ENGINEERINGMECHANICAL ENGINEERING TECHNOLOGY MAJOR
REQUIREMENTS (76 semester hours) Must pass all courses with a grade of "C" or higher.
Basic Engineering Courses (19 semester hours)
ENGR 101 Introduction to Engineering 1
ENGR 125 CAD and Fabrication 3
ENGR 140 First-Year Engr. Projects 3
ENGR 224 Materials Science 2
ENGR 224L Materials Science Lab 1
ENGR 225 Intro to Manufacturing 3
ENGR 261 Statics and Structures 3
ENGR 263 Mechanics of Solids 3


| AMEMET Courses (36 semester hours) |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG 305 | Engr Econ \& Ethics | 2 |  |
| ENGR | - |  |  |
| ENGR 312 | Engr Thermodynamics | 3 | - |
| ENGR 317 | Fund of Cir and Elect | 3 | - |
| ENGR 321 | Fluid Mechanics | 3 | - |
| ENGR 325 | Component Design | 3 | - |
| ENGR 343 | Dynamics | 3 | - |
| ENGR 345 | Engr Integration I | 3 | - |
| ENGR 385 | Engr Integration II | 3 | - |
| ENGR 401 | Professionalism Seminar | 1 | - |



## SUGGESTED COURSE SEQUENCING FOR A MAJOR IN APPLIED MEGHANIGAL ENGINEERINGMECHANICAL ENGINEERING TECHNOLOGY

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

| Fall Semester |  | FRESHMAN YEAR |  |  | Hours |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hours | Spring Seme |  |  |
| ENGR 101 | Intro to Engineering | 1 | MATH 136 | Engineering Calculus II | 4 |
| MATH 135 | Engineering Calculus I | 4 | ENGL 112 | English Composition | 3 |
| ENGL 111 | English Composition | 3 | ENGR 140 | First-Year Engr. Projects | 3 |
| ENGR 125 | CAD and Fabrication | 3 | MAMT 102 | Intro to Machine Shop | 1 |
| KINE 100 | Health and Wellness | 1 | PHYS 131 | Fundamental Mechanics | 4 |
| MAMT 105 | Print Reading \& Sketching | 2 | PHYS 131L | Fundamental Mechanics Lab | 1 |
| MAMT 106 | Geometric Dim \& Tolerancing | $\underline{2}$ |  |  | 16 |



| Fall Semester |  | JUNIOR YEAR |  |  | Hours |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hours | Spring Sem |  |  |
| ENGR 225 | Intro to Manufacturing | 3 | ENGR 317 | Fundamentals of Circuits \& Electronics | S |
| ENGR 305 | Engineering Economics \& Ethics | 2 | ENGR 325 | Component Design | 3 |
| ENGR 312 | Engineering Thermodynamics | 3 | ENGR 343 | Dynamics | 3 |
| ENGR 321 | Fluid Mechanics | 3 | ENGR 385 | Engineering Integration Project II | 3 |
| STAT 305 | Engineering Statistics \& Quality | trol 3 |  | Option Credits | $\underline{3}$ |
| ENGR 345 | Engineering Integration Project I | $\underline{3}$ |  |  | 15 |

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| Fall Semester |  | SENIOR YEAR |  |  | Hours |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Hours | Spring Semester |  |  |
| ENGR 401 | Professionalism Seminar | 1 | ENGR 435 | Industrial Controls | 3 |
| ENGR 427 | Measurements Lab | 2 | ENGR 446 | Writing for Design Projects | 1 |
| ENGR 445 | MET DesignSenior Project It | 3 | ENGR 485 | MET DesignSenior Project $\underline{\text { IIZ }}$ | 3 |
| ESSL | History | 3 | ESSL | Fine Arts | 3 |
| ESSL | Social Science | 3 |  | Option Credits | $\underline{6}$ |
|  | Option Credits | $\underline{3}$ |  |  | 16 |

## POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
5. NOTE: During your senior year, you will be required to take a capstone exit assessment/project (e.g,, Major Field Achievement Test).

Department: WCCC

## Admin Office Tech-Administrative Professional: 1395

## Degree Type: <br> AAS

Revision to program sheet: Yes $\downarrow$ No
Description of modification:
Course sequencing for OFAD 120 and OFAD 221. Move OFAD 120 to the Third Semester and move OFAD 221 to the first semester.

## Justification:

Scheduling conflict between two required classes. OFAD 221 and MGDA 111 are both currently recommended for the third semester and both classes meet during the same days and times.

| Revision to SLOs: | Yes $\square$ | No $\downarrow$ |
| :--- | :--- | :--- |
| Other changes: | Yes $\square$ | No $\downarrow$ |

Discussions with affected departments:
Graphic Design. Met with Dan McClintock Monday, August 24, 2015. He approved this suggested change.
Proposed by: Alane Wooster
Director of Teacher Education Signature:
Expected Implementation:

A Division of Colorado Mesa University

## Major: Administrative Office Technology

Emphasis: Administrative Professional

## About This Emphasis . . .

This program prepares students to be effective, efficient office professionals. Students develop skills in office procedures, word processing, grammar, records management, oral presentations, information systems, current software programs, human relations and communications. The administrative professional curriculum prepares the student to be effective support staff in business, government or non-profit organizations. Students learn document preparation, records management, bookkeeping, office procedures, office software, and basic research.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html
All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Students will have the ability to create professional business documents per industry standards. (Communication Fluency)
2. Students will have the ability to produce professional financial documents per industry standards. (Quantitative Fluency)
3. Students will have the ability to provide excellent internal and external customer service. (Applied Learning)
4. Students will have the ability to use business software applications proficiently. (Critical Thinking)
5. Students will have the ability to be effective, efficient, entry level office professionals. (Applied Learning)
6. Students will appreciate the significance of trustworthiness, confidentiality, dependability, self-motivation, and attitude. (Specialized Knowledge)

NAME: $\qquad$ STUDENT ID \#:

LOCAL ADDRESS AND PHONE NUMBER: $\qquad$
( )

I, (Signature) $\qquad$ , hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I have read and understand the policies listed on the last page of this program sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

## Signature of Advisor

Date

## Signature of Department Head

Date

Signature of Registrar
$\overline{\text { Date }}$

## DEGREE REQUIREMENTS:

- 64 semester hours total (A minimum of 16 taken at CMU in no fewer than two semesters)
- 2.00 cumulative GPA or higher in all CMU coursework and a "C" or better must be achieved in achieved in coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

ESSENTIAL LEARNING REQUIREMENTS (Minimum 15 semester hours) See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the Essential Learning requirement. The Essential Learning capstone course and corequisite Essential Speech course (required for bachelor's degrees) cannot be used as options for the below requirements.

Course No Title
Sem.hrs Grade Term/Trns
Communication (6 semester hours)
ENGL 111 English Composition
ENGL 112 English Composition
-OR-
ENGL 111 English Composition and
SPCH 101 Interpersonal Communication or
SPCH 102 Speechmaking
Mathematics: MATH 107 or higher (Minimum 3 semester hours)
$\qquad$ 3

Social Sciences, Natural Science, Fine Arts or Humanities (6 semester hours)


## ASSOCIATE OF APPLIED SCIENCE: ADMINISTRATIVE

 OFFICE TECHNOLOGY - ADMINISTRATIVE PROFESSIONAL COURSE REQUIREMENTS (47semester hours)
## Core Classes

$\left.\begin{array}{llll}\begin{array}{lll}\text { BUGB 211 } \\ \text { OFAD 221 }\end{array} & \begin{array}{l}\text { Business Communications } \\ \text { Voice Recognition and }\end{array} & 3 & - \\ & \text { Business Editing }\end{array}\right)$

## SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN ADMINISTRATIVE OFFICE TECHNOLOGY, EMPHASIS IN ADMINISTRATIVE PROFESSIONAL

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

## FRESHMAN YEAR

| First Semester |  | Hours |
| :--- | :--- | ---: |
| ENGL 111 | English Composition | 3 |
| KINE 100 | Health and Wellness | 1 |
| OFAD 101 | Office Bookkeeping | 3 |
| OFAD 153 | Word Processing | 3 |
| OFAD 221 | Voice Recognition and Business Editing | 3 |


| Second Semester | Hours |  |
| :--- | :--- | ---: |
| ENGL 112 | English Composition OR SPCH 101/102 | 3 |
| Social Sciences, | Natural Science, Fine Arts or Humanities | 3 |
| MATH 107 | Career Mathematics | 3 |
| OFAD 206 | Computerized Bookkeeping | 3 |
| OFAD 125 | Multimedia and Web Editing | $\underline{3}$ |
|  |  | 15 |

OFAD 120 Internet and Social Networking 3
Social Sciences, Natural Science, Fine Arts or Humanities * $\underline{3}$

## SOPHOMORE YEAR

| Third Semester |  | Hours |
| :--- | :---: | ---: |
| OFAD 202 | Records Management | 3 |
| OFAD 267 | Presentation, Publishing \& Desk Top <br>  <br>  <br> Management Software | 3 |
| OFAD 208 | Spreadsheets |  |
| OFAD 221 | Voice Recognition and Business Editing | 3 |
| MGDA 111 | Adobe Photoshop I | 3 |
| OFAD 105 | Ten Key | 2 |
| OFAD 120 | Internet and Social Networking | 3 |


| Fourth Semester |  | Hours |
| :--- | :--- | ---: |
| OFAD 201 | Office Procedures | 3 |
| BUGB 211 | Business Communications | 3 |
| KINA | Activity | 1 |
| OFAD 269 | Complete PC Database | 3 |
| OFAD 291 | Service Learning | 3 |
| MGDA 112 | Adobe Illustrator I | $\underline{3}$ |
|  |  | 16 |

## POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
5. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).
