



2015-2016 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science
Emphasis: Process Systems Technology

About This Emphasis . . .

The Process Technology Program will prepare students for entry level employment as process operators or technicians. A process operator/technician is a key member of a team of people responsible for planning, analyzing, and controlling the production of products from the acquisition of raw materials through the production and distribution of products to customers in a variety of process industries.

This program will provide the student with an understanding of process equipment and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important, shift-oriented position. The industries interested in the graduates from the program include, but are not limited to, oil exploration and production, mining and mineral processing, petroleum product manufacturing, advanced manufacturing, pharmaceutical production, food and beverage, electric power generation, drinking water treatment, and wastewater treatment.

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. Apply business communication using listening, verbal and written, and electronic forms
2. Apply Mathematical and applied physics concepts for the industry
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers
4. Demonstrate a knowledge of terminology, symbols, business practices, and principles and application of associated technical skills
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior

NAME: _____ **STUDENT ID #:** _____

LOCAL ADDRESS AND PHONE NUMBER: _____

_____ () _____

I, (Signature) _____, 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 _____ 20____

Signature of Department Chair Date _____ 20____

Signature of Registrar Date _____ 20____

DEGREE REQUIREMENTS:

- 61 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 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 co-requisite 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	3	_____	_____
ENGL 112	English Composition	3	_____	_____
-OR-				
ENGL 111	English Composition <u>and</u>	3	_____	_____
SPCH 101	Interpersonal Communication <u>or</u>	3	_____	_____

SPCH 102	Speechmaking	3	_____	_____
Course No	Title	Sem.hrs	Grade	Term/Trns

Mathematics (Minimum 3 semester hours)
MATH 108 Technical Mathematics or higher 4 _____

Social Sciences, Natural Science, Fine Arts, or Humanities
(Minimum 6 semester hours)
_____ 3 _____
_____ 3 _____

WELLNESS REQUIREMENT (2 semester hours)
KINE 100 Health and Wellness 1 _____
KINA 1 _____ 1 _____

ASSOCIATE OF APPLIED SCIENCE: PROCESS SYSTEMS

TECHNOLOGY REQUIREMENTS
(43semester hours)

Core Classes

TECI 132	Intro Info Tech Hard/Soft	3	_____	_____
PROS 100	Intro to Process Technology	3	_____	_____
PROS 110	Safety, Health, & Environment	3	_____	_____
TECI 110	Applied Physics	3	_____	_____
PROS 117	Electronics I	3	_____	_____
PROS 118	Electronics II	3	_____	_____
PROS 120	Process Technology I: Equipment	4	_____	_____
PROS 130	Instrumentation	3	_____	_____
PROS 210	Process Technology II: Systems	4	_____	_____
TECI 251	Personal and Professional Leadership Development	2	_____	_____
PROS 220	Process Technology III: Operations	4	_____	_____
PROS 230	Quality in Process Technology	3	_____	_____
PROS 292	Capstone	4	_____	_____
PROS 290	Certification: ETA	1	_____	_____

*Please see your advisor for requirements specific to this program.

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH AN EMPHASIS IN PROCESS SYSTEMS TECHNOLOGY

First Semester		Hours	Second Semester		Hours
MATH 108	Technical Mathematics	4	ENGL 112	English Composition or SPCH 101/102	3
ENGL 111	English Composition	3	TECI 132	Intro IT Hardware	3
PROS 117	Electronics I	3	TECI 251	Leadership	2
PROS 100	Introduction to Process Technology	3	PROS 118	Electronics II	3
PROS 110	Safety, Health, and Environment	<u>3</u>	PROS 120	Process Technology I: Equipment	4
		16			15
Third Semester		Hours	Fourth Semester		Hours
Essential Learning	Soc/Beh. Sci, Humanities	3	Essential Learning	Soc/Beh. Sci, Humanities	3
TECI 110	Applied Physics	3	PROS 290	Certification	1
PROS 130	Instrumentation	3	PROS 220	Process Technology III: Operations	4
PROS 210	Process Technology II: Systems	4	PROS 230	Quality in Process Technology	3
KINE 100	Health	1	PROS 292	Capstone	<u>4</u>
KINA	Activity	<u>1</u>			15
		15			

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).