



**2017-2018 PROGRAM REQUIREMENTS**  
**Degree: Associate of Applied Science**  
**Major: Information and Communication Technology**

**About This Major . . .**

The Information and Communication Technology (ICT) program provides the student with the foundation skills and knowledge for entry into the broad spectrum of ICT careers. It is designed to educate students in areas of business-class computer hardware and software, convergent data/voice/media communication hardware and software, computer network hardware and software, Internet of Things hardware and software, 3D Printing hardware and software, unmanned aerial Systems (UAS) and robotics hardware, software and management. The program utilizes CISCO curriculum for most courses, including the core Cisco Certified Network Associate (CCNA) courses to prepare students for the certification exam.

Curriculum is accredited, approved and aligned with national and international certifications by major business and industry in the networking and ICT career fields.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/career/whatmajor.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 that are needed for entry level employment. (Communication Fluency)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

**Advising Process and DegreeWorks**

This document is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at <http://www.coloradomesa.edu/registrar/graduation.html>.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

## **INSTITUTIONAL DEGREE REQUIREMENTS**

The following institutional degree requirements apply to all CMU/WCCC AAS degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

## **PROGRAM-SPECIFIC DEGREE REQUIREMENTS**

- 60 semester hours total for the AAS, Information and Communication Technology.
- A grade of "C" or higher must be achieved in all coursework toward major content area.

## **ESSENTIAL LEARNING REQUIREMENTS** (15 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.

### **Communication** (6 semester hours)

- ENGL 111 - English Composition (3)
- Select one of the following courses:
  - ENGL 112 - English Composition (3)
  - SPCH 101 - Interpersonal Communication (3)
  - SPCH 102 - Speechmaking (3)

### **Mathematics** (3 semester hours)

- MATH 108 - Technical Math (4) or higher

### **Other Essential Learning Core Courses** (6 semester hours)

- Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3)
- Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3)

## **OTHER LOWER-DIVISION REQUIREMENTS**

### **Wellness Requirement** (2 semester hours)

- KINE 100 - Health and Wellness (1)
- Select one Activity course (1)

**AAS: INFORMATION AND COMMUNICATION TECHNOLOGY REQUIREMENTS** (43 semester hours, must be completed with a grade of "C" or higher.)

- TECI 111 - Health Data Management and Information Systems (3)
- ABUS 128 - Workplace Behavior (3)
- TECI 131 - Principles of Information Assurance (3)
- TECI 132 - Introduction to IT Hardware and System Software (3)
- TECI 142 - Internet of Things (3)
- ABUS 160 - Intro to Customer Service (3)
- TECI 163 - Convergent Technologies (3)
- TECI 180 - Cisco Networking I (3)
- TECI 185 - Cisco Networking II (3)
- TECI 230 - Cisco Networking III (3)
- TECI 235 - Cisco Networking IV (3)
- TECI 242 - Cloud Computing (3)
- TECI 265 - Advanced IT Hardware and System Software (3)
- TECI 292 - Capstone in Technical Engineering, Planning, and Economics (4)

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### SUGGESTED COURSE SEQUENCING

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#### **Freshman Year, Fall Semester: 13 credits**

- MATH 108 - Technical Math (4)
- TECI 132 - Introduction to IT Hardware and System Software (3)
- ABUS 160 - Intro to Customer Service (3)
- TECI 180 - Cisco Networking I (3)

#### **Freshman Year, Spring Semester: 16 credits**

- ENGL 111 - English Composition (3)
- Essential Learning - Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3)
- KINE 100 - Health and Wellness (1)
- TECI 142 - Internet of Things (3)
- TECI 163 - Convergent Technologies (3)
- TECI 185 - Cisco Networking II (3)

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#### **Sophomore Year, Fall Semester: 16 credits**

- KINA Activity (1)
- TECI 111 - Health Data Management and Information Systems (3)
- ABUS 128 - Workplace Behavior (3)
- TECI 131 - Principles of Information Assurance (3)
- TECI 230 - Cisco Networking III (3)
- SPCH 101 - Interpersonal Communications (3)

#### **Sophomore Year, Spring Semester: 16 credits**

- Essential Learning - Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3)
  - TECI 235 - Cisco Networking IV (3)
  - TECI 242 - Cloud Computing (3)
  - TECI 265 - Advanced IT Hardware and System Software (3)
  - TECI 292 - Capstone in Technical Engineering, Planning, and Economics (4)
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