About This Emphasis . . .

Students enrolled in Technology Integration learn a multitude of skills to help prepare them to enter a variety of careers related to computer systems, computer system administration and networking, electronics, and telecommunications engineering. Students begin the program studying basic core classes including communications, DC/AC circuitry, information technology hardware and software, and Cisco Systems Network training.

In the second year, students select an area of emphasis from three choices – telecommunications engineering, network technician, or certified electronics technician. The course work in this associate of applied science program is aligned with national and international certifications including Cisco, A+/N+, CET, and Convergent Technology Professional (CTP). Program content has been structured to give a basic education to all graduates entering this field. Emphasis has been placed on providing a common core of training for all students due to the convergence of the communication industries.

The Certified Electronics Technician program provides knowledge and skill development in installing, troubleshooting, repairing and servicing electronic equipment and circuits. A hands-on practical skills component accounts for much of the coursework. You will study electrical circuits, analog and digital electronics, microprocessor operations, ethics and communications. You will also receive an introduction to personal computer troubleshooting and upgrading.

POLICIES:
1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC Catalog for a complete list of graduation requirements.
2. 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. 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.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the WCCC for signature.
5. Finally, the WCCC or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. 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.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

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 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.

_____   _____20_____
Signature of Advisor   Date

_____   _____20_____
Signature of WCCC   Date

_____   _____20_____
Signature of Registrar   Date

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:
- 2.00 cumulative GPA or higher in all MSC coursework and a "C" or better must be achieved in each course which comprises the area of emphasis or specialization for TECI.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student's responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head. Courses related to teacher licensure must also be approved by the Teacher Education Dept.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the Mesa State College catalog for additional graduation information.

GENERAL EDUCATION REQUIREMENTS (18 Semester Hours)
See the current Mesa State College catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, <u>you must use it to fulfill the major requirement</u> and make a different selection within the general education requirement.

Course No	Title	Sem.hrs	Grade	Term/Trns
English (6 semester hours)				
ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____
Math: (4 semester hours)				
MATH 108	Technical Mathematics	4	_____	_____

Social and Behavioral Sciences, Humanities, or Selected Speech Courses (6 semester hours)

_____ ____ _____		3	_____	_____
_____ ____ _____		3	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns
Kinesiology (2 semester hours)				
KINE 100	Health and Wellness	1	_____	_____
KINA 1____	_____	1	_____	_____

ASSOCIATE OF APPLIED SCIENCE: TECHNOLOGY INTEGRATION – CERTIFIED ELECTRONICS TECHNICIAN REQUIREMENTS
(48 semester hours)

Core Classes

Course No	Title	Sem.hrs	Grade	Term/Trns
TECI 117	DC Passive Circuits	3	_____	_____
TECI 118	AC Passive Circuits	3	_____	_____
TECI 121	Electronic Design/Layout	2	_____	_____
TECI 132	Intro to IT Hardware and System Software	3	_____	_____
TECI 164	Electronic Circuits I	3	_____	_____
TECI 164L	Electronic Circuits I Lab	1	_____	_____
TECI 165	Applied Digital Circuits	3	_____	_____
TECI 165L	Applied Digital Circuits Lab	1	_____	_____
TECI 170	Intro to Communications	3	_____	_____
TECI 180	Cisco Networking I	3	_____	_____
TECI 231	Electronic Circuits II	3	_____	_____
TECI 231L	Electronic Circuits II Lab	1	_____	_____
TECI 256	Electronic Communication	3	_____	_____
TECI 256L	Electronic Communication Lab	1	_____	_____
TECI 260	Information Technology Hardware & System Software	3	_____	_____
TECI 260L	Information Technology Hardware & System Software Lab	1	_____	_____
TECI 290	Certification:	2	_____	_____
TECI 292	Capstone in Technical Engineering and Economics	4	_____	_____
TECI 110	Applied Physics	3	_____	_____
TECI 251	Personal and Professional Leadership Development	2	_____	_____

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN TECHNOLOGY INTEGRATION – EMPHASIS IN CERTIFIED ELECTRONICS TECHNICIAN

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 their advisor and check the 2 year course matrix on the Mesa State website for course availability.

First Semester		Hours
ENGL 111	English Composition	3
Math 108	Technical Mathematics	4
TECI 132	Intro to Info Tech Hardware/Sys Software	3
TECI 170	Introduction to Communications	3
TECI 180	Cisco Networking I	3
KINE 100	Health and Wellness	1
		17

Second Semester		Hours
TECI 110	Applied Physics	3
KINA	Activity	1
TECI 117	DC Passive Circuits	3
TECI 118	AC Passive Circuits	3
TECI 260	Info Tech Hardware/Software	3
TECI 260L	Info Tech Hardware/Software Lab	1
TECI 251	Personal/Professional Leadership Dev.	2
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Third Semester		Hours
ENGL 112	English Composition	3
General Education Soc/Beh. Sci, Humanities, or Speech		3
TECI 121	Electronic Design/Layout	2
TECI 164	Electronic Circuits I	3
TECI 164L	Electronic Circuits I Lab	1
TECI 165	Applied Digital Circuits	3
TECI 165L	Applied Digital Circuits Lab	1
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Fourth Semester		Hours
General Education Soc/Beh. Sci, Humanities, or Speech		3
TECI 231	Electronic Circuits II	3
TECI 231L	Electronic Circuits II Lab	1
TECI 256	Electronic Communications	3
TECI 256L	Electronic Communications Lab	1
TECI 290	Certification:	2
TECI 292	Capstone in Tech Engineering/Economics	4
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