About This Emphasis . . .

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado. A number of emphases are available within the A.S. degree. Students choosing one of these emphases will take courses in a discipline in addition to the general education core.

Students in the Associate of Science (A.S.) degree with emphasis in Electronic Engineering Technology learn AC/DC circuitry and develop basic skills in analyzing, troubleshooting, repairing computers, and the design and manufacturing of integrated circuits. Students will learn to utilize standard test equipment such as multimeters, oscilloscopes, and function generators and may choose an emphasis in computers, networking, telecommunications systems, or electrical engineering.

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 Director of Instruction for signature.
5. Finally, the WCCC Director of Instruction 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.

Signature of Advisor __________________________ Date 20________

Signature of WCCC Director of Instruction __________________________ Date 20________

Signature of Registrar __________________________ Date 20________

Associate of Science: Electronic Engineering Technology 2008-2009 Program Sheet, Page 1 of 3
Posted 4/14/08
Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:
- 60 semester hours are required for the Associate of Science degree. Must meet the academic residency requirements.
- 2.00 cumulative GPA or higher in all MSC 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 grade of “C” or higher must be earned in all general education courses in order to be accepted for the transfer under the Core Transfer Agreements.
- 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.
- 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 (31 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, you must use it to fulfill the major requirement and make a different selection within the general education requirement.

<table>
<thead>
<tr>
<th>Course No</th>
<th>Title</th>
<th>Sem.hrs</th>
<th>Grade</th>
<th>Term/Trns</th>
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**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.)
- ENGL 111 English Composition 3  
- ENGL 112 English Composition 3  
(ENGL 129, Honors English, may be substituted for ENGL 111 & ENGL 112.

**Math:** MATH 113 or higher (3 semester hours, must receive a grade of “C” or better, must be completed by the time the student has 60 semester hours.)
- MATH 113 College Algebra 4*  
  *3 credits apply to the General Ed requirements and 1 credit applies to elective credit

**Humanities** (3 semester hours)

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**Social and Behavioral Sciences** (6 semester hours)

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<th>Title</th>
<th>Sem.hrs</th>
<th>Grade</th>
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</thead>
</table>

**Natural Sciences** (7 semester hours, one course must include a lab)
- PHYS 111 General Physics 4  
- PHYS 111L General Physics Lab 1  
- PHYS 112 General Physics 4  
- PHYS 112L General Physics Lab 1  

**History** (3 semester hours)
- HIST ___  

**Fine Arts** (3 semester hours)

**OTHER LOWER DIVISION REQUIREMENTS** (5 semester hours)

<table>
<thead>
<tr>
<th>Course No</th>
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**ASSOCIATE OF SCIENCE: ELECTRONIC ENGINEERING TECHNOLOGY COURSE REQUIREMENTS**
(29 semester hours) Must earn a “C” or above in each course.

**Core Classes**
- TECI 117 DC Passive Circuits 3  
- TECI 118 AC Passive Circuits 3  
- TECI 164 Electronic Circuits I 3  
- TECI 164L Electronic Circuits I Lab 1  
- TECI 165 Applied Digital Circuits 2  
- TECI 165L Applied Digital Circuits Lab 2  
- *MATH 113 College Algebra 1  
- TECI 231 Electronic Circuits II 3  
- TECI 231L Electronic Circuits II Lab 1  
- CSCI (Pascal, FORTRAN, or other approved language)  
- CSCI ___  
- MATH 130 Trigonometry 3  
- MAMT 151 Calculus I 5  

**Special Recommendations** – It is recommended that the student take PHYS 111/111L and 112/112L.

**Additional Expenses** – Student will be required to have an appropriate multi-meter (20,000 ohms/volts or more), hand tools costing approximately $60.00; a scientific calculator, and a power supply kit for TECI 117, costing approximately $32.00. This does not include the cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.
SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF SCIENCE WITH A MAJOR IN ELECTRONIC 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 Mesa State website for course availability.

### FRESHMAN YEAR

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<th>Hours</th>
<th>Spring Semester</th>
<th>Hours</th>
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<td>General Education History</td>
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<td>TECI 118</td>
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### SOPHOMORE YEAR

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<th>Spring Semester</th>
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<tr>
<td>TECI 164L</td>
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<td>TECI 231</td>
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<td>TECI 165L</td>
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<td>CSCI XXX</td>
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<td>General Education Humanities</td>
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<td>MATH 151</td>
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