2005 – 06 PETITION/PROGRAM SHEET
Degree: Associate of Science
Emphasis: Electronic Engineering Technology
www.mesastate.edu/schools/utec/elec.htm

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

_____ _____ 20_____
Signature of Advisor Date

_____ _____ 20_____
Signature of UTEC Director of Instruction Date

_____ _____ 20_____
Signature of Registrar Date

GENERAL EDUCATION REQUIREMENTS (33 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
English and Speech: ENGL 111 **and** 112, SPCH 102 (9 semester hours, must earn a grade of "C" or above in ENGL 111 and 112)						
ENGL	111	3				
ENGL	112	3				
SPCH	102	3				
Physical Sciences/Math/Statistics (12 semester hours) Science (minimum 8 semester hours) PHYS 111, 111L, 112, 112L are recommended						
PHYS	111					
PHYS	111L					
PHYS	112					
PHYS	112L					
Math (minimum 4 semester hours, MATH 113 or higher, must receive grade of "C" or above)						

Course	No.	Credit	Grade	Term	Year	Trns/Subs
Social and Behavioral Sciences: (6 Semester Hours) (Minimum of 2 different disciplines)						
Humanities (6 semester hours) (Minimum of 2 different disciplines)						

Human Performance and Wellness (2 semester hours) HPWA 100 and one HPWE activity

Course	No.	Credit	Grade	Term	Year	Trns/Subs
HPWA	100	1				
HPWE		1				

Associate of Science: Electronic Engineering Technology Course Requirements (31 Semester Hours) Must earn a "C" or above in each course.

Course	No.	Credit	Grade	Term	Year	Trns/Subs
TECI	117	3				
TECI	117L	1				
TECI	118	3				
TECI	118L	1				
TECI	164	3				
TECI	164L	1				
TECI	165	2				

Course	No.	Credit	Grade	Term	Year	Trns/Subs
TECI	165L	2				
TECI	231	3				
TECI	231L	1				
CSCI (Pascal, FORTRAN, or other approved language)						
CSCI		3				
MATH	130	3				
MAMT	151	5				

- 60 semester hours are required for the Associate of Science degree. Must meet the academic residency requirements.
- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken and a "C" or better must be achieved in each course which comprises the area of emphasis or specialization for TECI.
- 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.
- No double counting is allowed between general education requirements and major requirements.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

GENERAL EDUCATION REQUIREMENTS (minimum 33 Semester Hours)

English and Speech – 9 Semester Hours
ENGL 111 **and** ENGL 112 **or** ENGL 129 ***(by permission)***
And SPCH 102 (required)

See current Mesa State College Catalog for list of courses that fulfill the requirements below.

Mathematics and Science – minimum 12 Semester Hours (PHYS 111, 111L, 112, 112L recommended)
Minimum 4 semester hours in Math and minimum 8 semester hours in Science. Both lecture and Lab must be taken in all courses having both.

Humanities – 6 semester hours. Minimum of two different disciplines required.

Social and Behavioral Sciences – 6 semester hours. Minimum of two different disciplines required.

OTHER REQUIREMENTS (2 Semester Hours)

Human Performance and Wellness – 2 Semester Hours
Each student must take HPWA 100 together with one HPWE Activity course. See current catalog for listing.

Associate of Science in Electronic Engineering Technology Course Requirements (31 Semester Hours)

CSCI XXX Pascal, FORTRAN, or other approved language (consult with advisor)
TECI 117 DC Passive Circuits
TECI 117L DC Passive Circuits Laboratory
TECI 118 AC Passive Circuits
TECI 118L AC Passive Circuits Laboratory
TECI 164 Electronic Circuits I
TECI 164L Electronic Circuits I Laboratory
TECI 165 Applied Digital Circuits
TECI 165L Applied Digital Circuits Laboratory
TECI 231 Electronic Circuits II
TECI 231L Electronic Circuits II Laboratory
MATH 130 Trigonometry
MATH 151 Calculus I

- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken and a "C" or better must be achieved in each course which comprises the area of emphasis or specialization for TECI.
- 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 117L, 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 AN EMPHASIS IN ELECTRONIC ENGINEERING TECHNOLOGY

FRESHMAN YEAR

Fall Semester		Hours
ENGL 111	English Composition	3
MATH 113	College Algebra	4
SPCH 102	Speechmaking	3
General Education	Humanities	3
General Education	Social/Behavioral Science	3
HPWA 100	Health and Wellness	1
		17

Spring Semester		Hours
ENGL 112	English Composition	3
MATH 130	Trigonometry	3
TECI 117	DC Passive Circuits	3
TECI 117L	DC Passive Circuits Lab	1
TECI 118	AC Passive Circuits	3
TECI 118L	AC Passive Circuits Lab	1
General Education	Social/Behavioral Science	3
HPWE Activity		1
		18

SOPHOMORE YEAR

Fall Semester		Hours
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
General Education	Science (PHYS 111, 111L suggested)	5
MATH 151	Calculus I	5
		18

Spring Semester		Hours
General Education	Science (PHYS 112, 112L suggested)	5
TECI 231	Electronic Circuits II	3
TECI 231L	Electronic Circuits II Lab	1
CSCI XXX	Computer Science Language	3
General Education	Humanities	3
		15