



Electronics Technology

Award Type: **Certificate of Completion**

Effective First Year/Term: 2004 Fall

Overall G.P.A.: 2.00

Initiating College: **Mesa Community College**

Program Availability: College Specific

Total Credits: 33

Major Code: **5591**

Faculty Initiator:

CIPS Code: 15.04.03

Instructional Council: Applied Technology (57)

Development Date:

District Curriculum Committee Online Agenda Date:

MCCCD Governing Board Approval Date: 4-27-04

Description: The CCL (Certificate of Completion) in Electronic Technology prepares students to work as electronics technicians, manufacturing supervisors, test equipment specialists, prototype fabricators, and in other positions in firms that specialize in electronic design, manufacturing, service, and development. The program provides a broad algebra-based background and emphasizes current needs and trends in the electronics industry.

Program Notes:

Students must earn a grade of "C" or better for each course listed in the "Required Courses" area.

+ indicates course has prerequisites and/or corequisites.

Admission Criteria: None

Program Prerequisites: None

Required Courses: Credits: 33

ELE105	Algebra-Trigonometry for Technology	5
ELE111	Circuit Analysis I	4
ELE112	Circuit Analysis II	4
ELE121	Solid-State Devices and Circuits I	4
ELE131	Digital Logic and Circuits	3
ELE181	Computer Programming for Technology	3
ELE241	Microprocessor Concepts	4
GTC106	Industrial Safety	2
GTC185	Electro-Mechanical Devices	4

Program Competencies

1. Demonstrate an ability to solve linear algebraic equation. (ELE105)
2. Use algebraic and trigonometric functions to solve electronic problems. (ELE105)
3. Apply Ohm's and Kirchhoff's laws to the solution of DC circuits and networks. (ELE111, ELE112)
4. Apply small signal analysis to bipolar and field-effect transistor circuits, and multistage amplifiers. (ELE121)

5. Apply the concept of Boolean algebra to the generation and reduction of logic circuits. (ELE131)
6. Use computer programs to solve technology related problems. (ELE181)
7. Use assembly language to program a microprocessor. (ELE241)
8. Develop an appreciation of safe work habits. (GTC106)
9. Describe the operation and application of various electromechanical devices. (GTC185)

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