

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Electronics Engineering Technology prepares students to assist in providing support for engineering functions or to function as an Electronics Technician. Instruction includes analog and digital circuit design, implementation and testing, fabrication techniques, fiber optics, telecommunications, and microprocessor programming and interface.

This two-year program provides students with the methods and procedures used in engineering organizations and by electronics technicians. Instruction takes place in a hands-on, state-of-the-art environment.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate a working knowledge of safety procedures, use of common hand tools, and proper fabrication techniques associated with the electronics environment.
- Identify passive components, construct, and test various DC and AC circuits.
- Identify active analog components, design, construct, and test various DC and AC circuits to include low-pass, band-pass, and high-pass filters using operational amplifiers as well as constructing a Bode Plot of an amplifier's frequency and phase response.
- Construct, analyze and test various types of digital circuits using Boolean expressions, Karnaugh maps and general purpose test equipment.
- Demonstrate a working knowledge of microcomputers and microprocessors to include writing an assembly language program to output a sinusoid wave, square wave, and triangle wave to an output port.

GENERAL EDUCATION REQUIREMENTS (27 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____
ENGLISH: ENG 100, 101, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 111B	3	_____
SCIENCE: EGG 131 and 132	8	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

	CR	SEMESTER
ET 104B Fabrication and Soldering Techniques	2	_____
ET 106B Test Equipment Operation	3	_____
ET 131B DC for Electronics	4	_____
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 213B Digital Logic II	4	_____
ET 220B Solid State Devices and Circuits I	4	_____
ET 222B Solid State Devices and Circuits II	4	_____
ET 228B Data Acquisition	4	_____
ET 282B Microprocessors I	4	_____
ET 293B Advanced	4	_____

68
Total Credits

EE A03

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.