

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

The Associate of Applied Science Degree in Electronics Engineering Technology, Telecommunication Emphasis prepares students with the necessary skills required by today’s high-tech, high-wage telecommunications industry. Instruction includes; telecommunications and advanced telecommunications and advanced telecommunications topics; IP network installation, configuration, and maintenance; electronics and digital circuits; copper and fiber optic cabling installation.

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

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

- Construct, test, and verify the operation of voice and data cables, various AC, DC, analog and digital circuits, demonstrate a working knowledge of data acquisition devices, fiber optics, electronics/telecommunications laboratory test equipment and perform a mechanical and fusion splice to specification.
- Perform IP network installation, maintenance, configuration, analysis, and management, while utilizing devices such as Routers and PCs.
- Explain the signaling and system structure of the various types of telephones, such as the mobile, IP based, and traditional. Distinguish between the various modulation and multiplexing techniques commonly employed in the communications.
- Design and test low-pass, band-pass, and high-pass filter using operational amplifiers.
- Demonstrate positive work ethics and interpersonal skills in a group environment and to deliver written and oral reports on projects.

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, 180, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 111, PSY 101, 102, 207, 208, 261, PT 122, 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 (42 Credits):

	CR	SEMESTER
CSCO 105B Fundamentals of Voice and Data Cabling	3	_____
CSCO 109B PC Troubleshooting and Repair	3	_____
CSCO 120 CCNA Internetworking Fundamentals	4	_____
CSCO 121 CCNA Routing Protocols and Concepts	4	_____
ET 108B Telecommunications and the Information Age	3	_____
ET 131B DC for Electronics	4	_____
ET 132B AC for Electronics	4	_____
ET 212B Digital Logic I	4	_____
ET 287B Introduction to Fiber Optics	3	_____
ET 293B Advanced Telecommunications	4	_____
ET 294B EET Capstones	3	_____
Plus 3 credits from the following:		
CSCO 200 or higher		_____
ET 200 or higher		_____
IS 115 Introduction to Programming	3	_____

ASSOCIATE OF APPLIED SCIENCE

69
Total Credits

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.