

Degree Programs

Associate of Science in Telecommunications

Program Description: The Associate of Science in Telecommunications program prepares students in the field of telecommunications. The program focuses on the understanding and applying of new techniques in electronic technology for the aim of testing, maintaining, repairing, and upgrading digital as well as analog communication systems. The program also covers fundamentals of digital communications, its applications and how information technology converges create robust synchronous telecommunications systems. The program is designed to be an integrated educational curriculum taught using an applied, and theoretical approach. With the expansion of 5G wireless and 10G broadband, it is important to learn the fundamentals of digital communications, its applications and how information technology converges to create robust synchronous telecommunications systems. This program is specifically designed to guide the student in learning modern day communication system design and its correlating infrastructure. The topics also include wired, wireless, and point to point technologies that create mesh networks which enable instantaneous communication between two or more individuals.

Program Objective: Students will be taught the co-relational properties of active fiber optic networks versus passive coaxial networks, small cell and 5G applications, wireless antenna systems, wired broadband and the engineering of infrastructure layouts that interconnects everything together. Hands-on practical courses give students a direct transfer of knowledge for each system type and its components. Students will be taught how information technology, 5G and telecommunication infrastructure is converging via data centers, servers, and cyber security. This program has several high-intensity courses that require strong physical strength and exposure to extreme heights. The student will be exposed to hazardous work-environments at heights over 25 feet, small spaces, and weather conditions to include heat, cold and surrounding climate.

TUITION AND FEES

Tuition	\$ 29,610.00
Registration Fee	\$ 25.00
Textbooks	\$ 880.00
Laboratory Fee	\$ 130.00
Technology Fee (paid per term)	\$ 50.00
Graduation Fee (Includes cap, gown & tassel)	\$ 75.00
Transcript Fee	\$ 35.00
e-Library Access Fee (Paid per term)	\$ 25.00
Late Payment Fee	\$ 35.00
Diploma Replacement Fee	\$ 25.00

ADMISSION REQUIREMENTS

- High School Diploma or GED.
- Valid government issued ID.
- At least 18 years of age upon application

Special Requirements:

Applicant must...

- must have a current and valid driver's license.
- must be able to lift at least 50 lbs. (Evaluated on site prior to final acceptance)
- must be able to climb at least a 20 ft. ladder. (Evaluated on site prior to final acceptance)
- must be physically capable to climb at least 200 ft. (Evaluated on site prior to final acceptance)

Courses Breakdown by Hours

Course Number	Course Title	Credit Hours	Delivery Method
General Education		15	
ENG101	Freshman Composition I	3	(Online)
ENG121	Freshman Composition II	3	(Online)
HIS101	History	3	(Online)
ALG101	College Algebra	3	(Online)
SOC102	Introduction to Sociology	3	(Online)
AS in Telecommunications Core		45	
TBR101	Introduction to Broadband Systems	3	(Online)
LED101	Leadership and Interpersonal Communication	3	(Online)
TEC110	Electrical Theory and Application	3	(Online)
TWR201	Introduction to Wireless Antenna Systems	3	(Online)
TBR202	Advanced Broadband Systems	3	(Online)
TIN211	Installation of Macro Cell Sites	3	(Online)
TWE222	Welding Methodologies and Grounding	3	(Online)
THA301	Telecommunications Hazard Analysis	3	(Online)
TIT310	Information Technology Fundamentals	3	(Online)
TFI320	Fiber Optic Networks and Activation	3	(Online)
TWI322	Ropes, Knots and Rigging Methodologies	3	(Online)
TWI323	Macro and Micro Cell Site Deployment	3	(Online)
TWI330	5G Networks and Deployment	3	(Online)
THE340L	Height Fall Protection and Rescue Theory and Lab	3	Lab (On-ground)
TFI350L	Fiber Optics for ISP, OSP and DAS Theory and Lab	3	Lab (On-ground)
Total		60	