Electrical Technology–Telecommunications

Degree Awarded: Associate in Applied Science

Recommended Course Sequence

First Semester		Credits
ENG 101	Freshman English 1	3
ENG 160	Technical Writing Module	1.5
PHY 111	Applied Physics 1	3
MAT 121	College Algebra	3
EET 101	Electric Circuits	4
EET 110	Computer Appl. and Graphics	3
PES 100	Concepts of Physical Wellness	1
Second Semester		
ENG 102	Freshman English 2	3
_____	Social Science Elective	3
MAT 122	College Trigonometry	3
EET 106	Telecommunications 1	4
EET 104	Digital Electronics	4
Third Semester		
ENG 161	Technical Writing Module	1.5
EET 201	Electronics 1	4
EET 107	Telecommunications 2	4
EET 206	Telecommunications 3	4
PES ____	Physical Education	1
Fourth Semester		
_____	Social Science Elective	3
EET 202	Electronics 2	4
EET 204	Digital Electronics 2	4
EET 230	Internship-Technology	3

Total Credits: 64

Program Description

The Associate in Applied Science degree program in Electrical Technology–Telecommunications prepares graduates to succeed in a variety of technical fields such as telecommunications, health care, utilities, manufacturing and other related electronic occupations.

In the course curriculum, students learn the basics of DC and AC electrical circuits. They build and test digital electronic, analog electronic and telecommunications circuits. Students research, build and present a wireless communications project. Most courses in the program are a combination of lecture and lab. The lecture covers the theoretical aspect of the curriculum, while the lab provides hands-on experience, as well as reinforcing the concepts.

A new state-of-the-art telecommunications lab, coupled with courses teaching current technology and internships, will provide students with a well rounded education and jobs with highly competitive salaries.

While A.A.S. graduates are prepared to enter the workforce immediately, many students choose to transfer to upper-level programs leading to a bachelor's degree in technology. If students are considering this, they should consult with the department chair and advisors for program planning. Special planning is available for students entering the program with previous college credit or equivalent training/work experience.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission. (See pages 7 through 13 for more details on the admission process for all applicants.)

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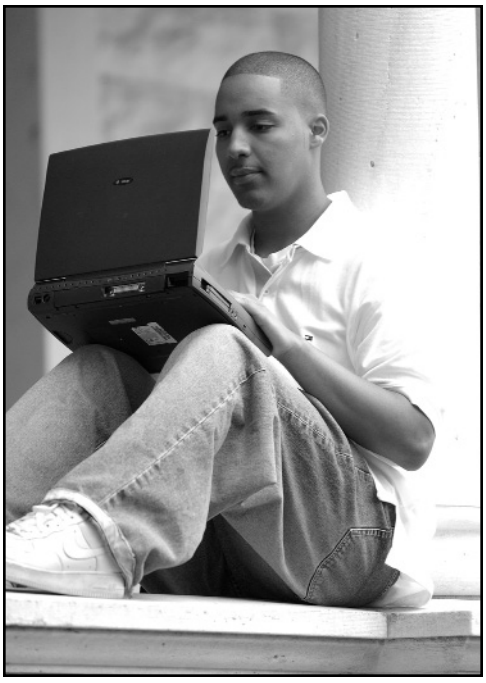
Student Learning Outcomes

Students will:

- develop logical techniques for designing, implementing and maintaining advanced telecommunications and electronic systems.
- learn the practical skills required to design and troubleshoot telecommunications and electronic systems.
- develop techniques to reason out new concepts.
- develop methods to maintain currency in the technology fields.
- utilize mathematics and computer software as the basic tools for design and analysis of complex telecommunications and electronic systems.
- develop the ability to communicate effectively in both a written and oral format.
- promote and develop teamwork and team building as an effective tool for increased productivity.
- Mimic and develop standard workplace competencies.



Career Opportunities

Students successfully completing the program should be qualified for entry level careers in the telecommunications field and other related fields in electronics.

Graduates of the program are currently working at:

- Time Warner Cable
- Citizens/Frontier Communications
- Verizon Communications
- Orange Regional Medical Center
- Orange and Rockland
- Con Edison
- IBM
- and in a variety of technical positions requiring a telecommunications and electronics background

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, SUNY Orange students have successfully transferred.

If a student plans to pursue a four-year degree program, he or she should see the department chair or a faculty advisor as soon as possible.

SUNY Orange students have successfully transferred to:

- Fairleigh Dickinson University
- New York Institute of Technology
- Rochester Institute of Technology
- SUNY Farmingdale
- SUNY Utica

Contact Information

Applied Technologies
Department Chair
341-4523
Admissions Office
(845) 341-4030