

HERZING

ASSOCIATE OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY (ASEET)

PROGRAM DESCRIPTION

This program will develop a strong foundation in the knowledge and skills needed by the graduate to qualify them for entry into a career in the electronic technology fields at the associate's degree level. The sequence of the electronics courses will provide a strong core of fundamental electronics leading into areas of computers, industrial electronics, and telecommunications. The electronics courses are also sequenced with "hands-on" labs to connect the theory to practical applications. The program contains general education courses to enhance the critical thinking and verbal and written communications skills, providing a well-rounded electronic engineering technology graduate ready to enter an electronics career.

PROGRAM OBJECTIVES

Upon completion of their program, the student should be able to:

1. Demonstrate the ability to use principles and tools of electronic technology to build, test, and troubleshoot electronic circuits and systems.
2. Demonstrate the ability to solder using proper techniques used in the electronics fields.
3. Demonstrate the ability to describe and apply fundamental concepts of electronics theory and measurements to identify, analyze, and solve electronic technology problems.
4. Demonstrate the ability to properly use standard test equipment used in the electronics fields.
5. Think critically, both conceptually and by using mathematical analysis; write and speak effectively; use basic computer applications; and understand human behavior in the context of the greater society.

POTENTIAL JOB POSITION TITLES

Potential entry-level job position titles include: robotic and industrial control technician, TV and radio broadcast engineer, computer service technician, biomedical electronics technician, electronics technician, field service technician, office automation technician, R and D technician, technical representative, network technician, electronics bench technician, technical support technician, industrial electronics technician, and home technology integration technician.

PROGRAM CONTENT

A minimum of 76.00 semester credit hours is required for graduation.

REQUIRED COURSES

All courses, 44.00 semester credit hours, are required.

Course Number	Course Name	Prerequisite	Credit Hours
EE 100	Electronic Fabrication	None	2.00
EE 110	Electricity and Test Equipment	None	2.00
EE 120	DC Circuits	EE 110	4.00
EE 130	AC Circuits	EE 120	4.00
EE 200	Digital Electronics	EE 110	4.00
EE 210	Solid State Electronics I	EE 130	4.00
EE 220	Solid State Electronics II	EE 210	4.00
EE 300	Microprocessors	EE 200	4.00
EE 320	Telecommunications I	EE 220	4.00
EE 330	Computers and Networks	EE 300	4.00
EE 335	Programming for Electronics	EE 300	4.00
EE 340	Telecommunications II	EE 320	4.00

ELECTIVE COURSES

A minimum of 4.00 semester credit hours is required.

Course Number	Course Name	Prerequisite	Credit Hours
EE 294	Career Internship	Final semester, Program GPA of 2.5 or better and PD 214	4.00
EE 310	Industrial Controls I	EE 200	4.00
EE 345	Home Technology	EE 330	4.00
EE 350	FCC License Preparation	EE 340	4.00

GENERAL EDUCATION REQUIREMENTS

Students enrolled in this associate's degree must complete a minimum of 26.00 semester credit hours in general education distributed among the following disciplines. Refer to the General Education section of the catalog for Herzing University courses that would satisfy these requirements. *

1.00 Semester Credit Hour in Information Literacy

3.00 Semester Credit Hours in English Composition

3.00 Semester Credit Hours in Speech

4.00 Semester Credit Hours in Computer Applications

8.00 Semester Credit Hours in Mathematics (College Algebra and Trigonometry/Precalculus)

3.00 Semester Credit Hours in Social or Behavioral Science

4.00 Semester Credit Hours in Physics With Lab

* Transfer students may transfer courses that are within 1.00 semester credit hour of the courses listed above to meet these discipline requirements. Any resulting deficiency in the total of 26.00 semester credit hours required in general education may be made up with general education electives from any of the listed disciplines.

PERSONAL AND PROFESSIONAL DEVELOPMENT COURSES

2.00 semester credit hours are required. Students taking the EE 294 Internship must also take PD 214.

Course Number	Course Name	Prerequisite	Credit Hours
PD 121	Professional Development I	None	1.00
PD 202	Professional Development II	None	1.00
PD 214	AS/AAS/BS/Diploma internship Preparation	None	0.00

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at <http://www.herzing.edu/academics/electronics-engineering-technology>