

Associates in Science

Computer Engineering Technology (26052)

2015—2016

About the program...

The Computer Engineering Technology program prepares students to work as technicians who repair and service computers and computer-related equipment. This program equips students to excel in computer servicing and maintenance to be able to provide technical assistance to computer system users. Students will be able to answer questions or resolve computer problems for clients computers and associated equipment. Through theory and practical experience in technical laboratories, students learn the basic operating principles of the hardware and software aspects of computer operation.



You will learn...

- ◆ Microprocessors
- ◆ Electronics
- ◆ Circuit Fabrication
- ◆ Data Communication and Systems Control
- ◆ Computer Graphics
- ◆ Computer network design and configuration
- ◆ A+ Certification



The Advantage of the degree

The Computer Engineering Technology specialists work in design offices, technical laboratories, maintenance workshops and out in the field at customer sites. They usually work in a team with engineers and other technologists or they carry out technical support functions by diagnosing hardware and software problems, and replacing defective components. The Computer Engineering Technologist can work as a System Administrator managing a company's network computer needs by using system information collected to identify, predict, interpret, and evaluate system and network requirements.

Earn This Degree and Work as...

Position	Median Salary
Telecommunications Installers	\$57,410
Network & Computer Administrator	\$54,800
Computer Support Specialist	\$48,900
Computer Systems Designer	\$39,030

Source for position and salary information is the Department of Labor and Statistics 2012.

Program Code 26052 Associate in Science

Total credits required for the degree is 68.

The Computer Engineering Technology program prepares students for employment as computer engineering technicians/technologists and in related occupations in electronics or to provide supplemental training for persons currently or previously employed in these occupations. The program focuses on the understanding and application of hardware and software concepts, trouble-shooting techniques, digital, microprocessor, to computer-based systems. Assembly, installation, operation, maintenance, calibration, troubleshooting, repairing and elementary design of computer systems are taught using an integrated and theoretical approach.

MAJOR COURSE REQUIREMENTS—46 credits required

(Select the following courses)

Course	Course Title	Credits
CET1171	Intro to Computer Service & Main.	3
CET1178C	A + Computer Hardware Service	3
CET1487C	Network +	3
CET1110C	Digital Circuits	4
CET2113C	Advanced Digital Circuits	4
CET2123C	Microprocessors	4
CET2588C	Server + Service and Maintenance	3
COP2270	"C" for Engineers	4
EET1082	Intro to Electronics	3
EET1015C	Direct Current Circuits	4
EET1025C	Alternating Current Circuits	4
EET2351C	Digital Communications	4
MAC1114*	Trigonometry	3

MAJOR COURSE ELECTIVES— 7 credits required

Choose 7 credits of these Electives under your advisor's guidance.

EET1141C**	Electronics I	4
EET2101C**	Electronics II	4
EET2323C**	Analog Communications	4
MAC1140*	Pre-Calculus	3

GENERAL EDUCATION REQUIREMENTS—15 credits required

ENC1101	English Composition 1	3
SPC1017	Fundamentals of Speech Communication	3
PHI2604	Critical Thinking/Ethics	3
CLP1006	Psychology of Personal Effectiveness	3
MAC1105	College Algebra	3

COMPUTER COMPETENCY

CGS1060	Intro to Microcomputer Usage	0
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Please Note

**By taking these courses, this degree will offer students the opportunity to seamlessly matriculate into the B.S. EET degree here at Miami Dade College. If you wish to find out more about our Bachelors degree, feel free to contact us at the information provided below.

The following schedule is based on students beginning in one of the major semesters (Fall or Spring) and following the suggested schedule on a continuing Fall/Spring basis as prescribed by the Faculty of the Department. Classes are offered in a sequence and cannot be taken out of place. Please note that some classes may not be offered every semester as well as some may not be offered in the Summer. It is highly recommended that you seek the advice of an Engineering department advisor and/or faculty member prior to starting.

First Term

14 Credits

EET1015C	Direct Current Circuits	4
COP2270	"C" for Engineers	4
MAC1105	College Algebra	3
ENC1101	English Composition I	3

Second Term

14 Credits

EET1025C	Alternating Current Circuits	4
CET1110C	Digital Circuits	4
MAC1114	Trigonometry	3
SPC1017	Fund. of Speech Comm.	3

Third Term

13/14 Credits

CET2113C	Advanced of Digital Circuits	4
CLP1006	Psychology of Personal Effectiveness	3
EET1082	Intro to Electronics	3
Technical Elective 1		3/4

Fourth Term

13/14 Credits

CET2123C	Microprocessors	4
CET1171	Intro to Computer Service & Main.	3
CET1178C	A+ Computer Hardware Service	3
Technical Elective 2		3/4

Fifth Term

13 Credits

EET2351C	Digital Communications	4
CET1487C	Network +	3
CET2588C	Server + Service and Maintenance	3
PHI2604	Critical Thinking/Ethics	3

NOTE: Some classes have pre-requisite or co-requisite requirements which may or may not be listed on the program sheet. It is the students responsibility to find out which classes do have these said requirements and consult with the engineering advisor prior to starting the program.

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