# Electronics & Computer Technology Program

As the electronic systems and equipment that power our personal and professional lives become more pervasive and integral to our existence, expertise of electronics and computer technologists is increasingly vital. To this end, DeVry based its Electronics & Computer Technology program on fundamentals of the technology driving today’s systems, including telecommunications, networks, wireless, computers, controls and instrumentation. Graduates have a broad knowledge base that qualifies them for challenging career-entry positions in the dynamic electronics and computer fields.

**Note:** To complete their program, ECT students must meet requirements outlined in *Electronics and Engineering Technology Programs – General Course Requirements*.

## Program Objectives

The program is designed to produce graduates who are able to:

- Apply knowledge of analog and digital electronics to describe, utilize, analyze and troubleshoot electronic systems.
- Construct and configure working prototypes of pre-designed systems that combine hardware and software.
- Conduct experiments with electronics and software systems, employing appropriate test equipment to evaluate performance and determine needed repairs.
- Communicate effectively both orally and in writing.
- Work effectively in a team environment and display good customer service skills.
- Use applied research and problem-solving skills to enhance learning at DeVry and throughout their careers.

## Program Details

**Degree:** Associate of Applied Science in Electronics and Computer Technology (in Florida, Associate of Science in Electronics and Computer Technology; in Minnesota, New Jersey, New York and Pennsylvania, Associate in Applied Science in Electronics and Computer Technology)

**Semesters:** 5 full time

**Minimum credit hours required for graduation:** 71

**Normal time to complete:** 2.5 years, assuming enrollment in 15–16 credit hours per semester and attending 2 semesters per year; enrollment in 17–20 credit hours may be needed in some semesters (see **Course Loads**).

There may be a slight difference between minimum credit hours required for graduation and total credit hours required if all courses are taken at DeVry. Credit hour differences may benefit students with qualifying transfer credit. Students should contact their student support professional or academic advisor for more information.

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**Program Outline**

Each lettered group in the following outline represents a graduation requirement. Though some courses may appear in more than one course area, each course may be applied to fulfill one graduation requirement only. Descriptions for courses are found in **Course Descriptions**.

### Course Area / Minimum Credit Hours

#### Communication Skills / 7

(a) all of: ENGL112; ENGL206

#### Humanities / 3

(a) ETHC232

#### Social Sciences / 3

(a) one of: PSYC110; SOCS185; SOCS190

#### Personal and Professional Development / 5

(a) all of: CARD205; COLL148

#### Mathematics and Natural Sciences / 8

(a) all of: MATH103*; PHYS204

#### Electrical and Electronic Circuits and Systems / 14

(a) all of: ECT122; ECT125; ECT246; ECT253; ECT295L

#### Digital, Microprocessor and Computer Systems / 15

(a) all of: COMP129; ECT109; ECT114

(b) one of: DHTI202; ECT274

#### Electronic Communications / 4

(a) ECT263

#### Control Systems / 4

(a) ECT284

#### Computer Networks / 6

(a) one of: NETW202; NETW203

(b) one of: NETW204; NETW205

#### Technical Alternate / 3

(a) one of: DHTI204; ECT264; ECT266; ECT270; NETW206; NETW207

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1. 67 for Minnesota residents enrolled as online students and for students enrolled at a Minnesota location
2. 66 for students attending a New Jersey location
3. 72 for Ohio residents enrolled as online students and for students enrolled at an Ohio location

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