

# Electronics Technology

## Career Studies Certificate

**Purpose:** This program is designed to provide basic skill development and competence for students seeking a career in electronics or related technologies.

**Occupational Objectives:** Students completing this program will have basic skills for an entry-level job in electronics technology or a related field, such as industrial electronics, PC hardware upgrade and repair, or home entertainment/security systems.

**Admission Requirements:** General college curricular admission

**Program Notes:** In addition to general college curricular admission, applicants to this program will have (a) completed placement testing and (b) met with their advisor to establish a planned course of study prior to being allowed to register for courses. Proficiency in arithmetic is required to begin this program, and students not meeting this requirement must successfully complete MTH 2 or an equivalent course before beginning the ETR course sequence. MTH 3 (Algebra I) and MTH 4 (Algebra II), or equivalent, must be completed as co-requisites for other courses in the program. Students interested in proceeding beyond the career studies certificate should consult with an advisor or counselor beginning the program.

Recommended course sequencing, by semester, is shown by the numbers 1, 2, and 3 in parentheses after the course title in the curriculum listing below. Students should allow time in their planned course sequencing for any developmental mathematics or English courses that may be required to meet program prerequisites or corequisites.

CURRICULUM				
COURSE	TITLE	LEC. HRS.	LAB. HRS.	CRS. CRE.
ENG 111	College Composition I (1)	3	0	3
ETR 101 <sup>1,2</sup>	Electrical/Electronic Calculations I (1)	2	3	3
SDV 100	College Success Skills (1)	1	0	1
ETR 164 <sup>1,2</sup>	Upgrading and Maintaining PC Hardware (1)	2	2	3
ITE 115	Introduction to Computer Applications and Concepts (2)	3	0	3
ETR 113 <sup>2,3</sup>	DC and AC Fundamentals I (2)	2	3	3
ETR 203 <sup>2,4</sup>	Electronic Devices I (2)	2	3	3
IND 116	Applied Technology (2)	2	2	3

ETR 214 <sup>2,5,6</sup>	Advanced Circuits and New Devices (3)	2	0	2
ETR 273 <sup>2,7</sup>	Computer Electronics I (3)	3	3	4
<b>TOTAL</b>		<b>22</b>	<b>16</b>	<b>28</b>

<sup>1</sup>The co- or prerequisite for ETR 101 is MTH 3 or equivalent. The prerequisite for ETR 164 is MTH 2 or equivalent, or permission of the ETR 101 instructor.

<sup>2</sup>Electronics courses must be taken in a sequence that satisfies prerequisite and corequisite requirements.

<sup>3</sup>The co- or prerequisite for ETR 113 is MTH 4 or equivalent.

<sup>4</sup>The co- or prerequisite for ETR 203 is ETR 113.

<sup>5</sup>Students interested in industrial electronics should substitute ELE 239 for ETR 214.

<sup>6</sup>ETR 214 is an introductory course covering new areas of electronics, such as home entertainment/security systems.

<sup>7</sup>The prerequisite for ETR 273 is ETR 203.