

**Electronics and Manufacturing Technology Fundamentals  
Career Studies Certificate**

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

**Occupational Objectives:** Students completing this program will have basic skills for an entry-level job in electronics and general manufacturing with emphasis on semiconductor manufacturing.

**Admission Requirements:** General college curricular admission

**Program Notes:** In addition to general college admission, each applicant will have: (a) completed placement testing and (b) met with his or her advisor to establish a planned course of study prior to being allowed to register for courses. Proficiency in Algebra I is required for this program, and students not meeting this requirement must take MTH 03 or an equivalent course.

Students interested in proceeding beyond the career studies certificate should consult with an advisor or counselor early in the program.

<b>CURRICULUM</b>				
<b>COURSE</b>	<b>TITLE</b>	<b>LECTURE HOURS</b>	<b>LAB HOURS</b>	<b>COURSE CREDITS</b>
STD 100	College Success Skills	1	0	1
ENG 111	College Composition I	3	0	3
ETR 101	Electrical/Electronic Calculations I	2	3	3
ETR 131	Electrical Circuits I	3	3	4
ETR 185	Semiconductor Manufacturing Technology Fundamentals	3	0	3
MEC 125	Safety and Automated Manufacturing Technology	3	0	3
IND 151	Introduction to Industrial Information Applications	2	3	3
ETR 175	Engineering and Computer Applications	2	3	3
IND 103	Industrial Methods	2	0	2
ETR 132	Electrical Circuits II	3	3	4
<b>TOTAL</b>		<b>24</b>	<b>15</b>	<b>29</b>