

## Electrical and Computer Engineering

### Electrical and Computer Engineering Transfer Option

OWENS CAMPUS

Fall 2021

*This program is designed for students that are interested in pursuing a career in the exciting fields of electrical or computer engineering. Electrical and computer engineers design, research, develop, and test electrical and computer systems and components in a variety of industries. Electrical and computer engineers are designers and innovators that help create the products that we use and rely on in our daily lives for work, entertainment, safety, health, and happiness. Electrical and computer engineers also develop solutions to current and future problems like sustainable energy resources, secure networks and computers, and new and innovative medical equipment.*

#### PROGRAM SPECIFIC ADVISEMENT STATEMENT

Courses - Semester 1	Credits	Lecture	Lab
<a href="#">SSC 100 - First Year Seminar</a>	1	1	0
<a href="#">CHM 150 - Chemical Principles I</a>	5	4	3
<a href="#">CEN 100 - Intro Elec &amp; Computer Eng Tech</a>	3	2	2
<a href="#">MAT 281 - Calculus I</a>	4	4	1
<a href="#">CSC 114 - Computer Science I</a>	4	3	2
<a href="#">ENG 101 - Composition I</a>	3	3	0
Courses - Semester 2	Credits	Lecture	Lab
<a href="#">PHY 281 - Physics I with Calculus</a>	4	3	3
<a href="#">MAT 282 - Calculus II</a>	4	4	1
<a href="#">CSC 164 - Computer Science II</a>	4	3	2
<a href="#">ELC 265 - Intro to Digital Systems</a>	3	2	4
<a href="#">ENG 102 - Composition II</a>	3	3	0
Courses - Semester 3	Credits	Lecture	Lab
( <a href="#">HIS 111 - U. S. History: Pre-Civil War</a>	3	3	0
OR <a href="#">HIS 112 - U. S. History: Post-Civil War</a>	3	3	0
OR <a href="#">SPA 136 - Spanish Communication I</a>	4	4	1
OR <a href="#">HIS 131 - Art History I</a>	3	3	0
OR <a href="#">HIS 132 - Art History II</a> )	3	3	0
Courses - Semester 4	Credits	Lecture	Lab
<a href="#">PHY 282 - Physics II with Calculus</a>	4	3	3
<a href="#">ELC 266 - Analog Circuits I</a>	4	3	4
<a href="#">MAT 283 - Calculus III</a>	4	4	1
<a href="#">CSC 210 - Systems Programming</a>	3	2	2
<a href="#">CEN 200 - Introduction to MATLAB</a>	2	1	2
Courses - Semester 5	Credits	Lecture	Lab
<a href="#">ELC 272 - Electronic Circuit Analysis I</a>	4	3	4
<a href="#">MAT 292 - Engineering Math I</a>	3	3	1
<a href="#">ELC 282 - Signals and Systems</a>	4	4	0
<a href="#">ELC 275 - Microprocessor Systems</a>	4	3	4

#### Approved Electives

Select one (1) social science elective (Group A) to take in the fifth semester.

Group	Courses	Credits	Lecture	Lab
A	<a href="#">ECO 111 - Macroeconomics</a>	3	3	0
A	<a href="#">ECO 122 - Microeconomics</a>	3	3	0
A	<a href="#">POL 111 - Political Science</a>	3	3	0
A	<a href="#">PSY 121 - General Psychology</a>	3	3	0
A	<a href="#">SOC 111 - Sociology</a>	3	3	0

*To complete program requirements, you must pass the above courses and earn at least **76 credits**. The number of courses and credits required for graduation may be more depending on your need for developmental education courses and the elective choices you make (if electives are a part of the program). Some programs also have college-level courses that you must take if you do not score at a certain level on the College Placement Test. If this applies to your program, the courses are listed at the top of the sequence sheet before the first semester of the course list.*