

ELECTRONICS AND COMPUTER TECHNOLOGY A.A.S.

60 Semester Credit Hours; Curriculum: 0165

Note: Refer to IAI General Education Courses page for guidelines on General Education course selection.

Code	Title	Hours
General Education Requirements		
<i>Area A - Communications</i>		
EGL 101	Composition I	3
Select one of the following:		3
EGL 102	Composition II	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
<i>Area B - Mathematics</i>		
Select two courses from Area B (Mathematics)		6
MAT 114	Applied Mathematics I (recommended)	
MAT 116	Applied Mathematics II (recommended)	
<i>Area C - Science</i>		
No course needed		0
<i>Area D - Social and Behavioral Sciences</i>		
Select one course from a social or behavioral science discipline		3
<i>Area E - Humanities/Fine Arts</i>		
Select one course from a humanities or fine arts discipline		3
<i>Area F - Global Studies</i> ¹		
Select one course that satisfies Global Studies requirement		0-3
<i>Area G - U.S. Diversity Studies</i> ²		
Select one course that satisfies U.S. Diversity Studies Requirement		0-3
Total Hours		18

¹ Students may take a Global Studies course that satisfies both Area F and another Area requirement.

² Students may take a U.S. Diversity course that satisfies both Area G and another Area requirement.

Code	Title	Hours
Major Requirements		
ELT 101	Introduction to Electronics	5
ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
ELT 130	Microcomputer Hardware Systems	3
ELT 221	Digital Circuit Fundamentals	3
ELT 223	Integrated Circuits	3
ELT 225	Digital Integrated Circuits	3
ELT 231	Fundamentals of Microprocessors	3
CNS 105	Networking Essentials	3
PHY 101	Applied Physics	4
Select courses to total a minimum of eight credit hours from the following:		8

MFG 240 Programmable Logic Controllers (PLC)

and/or ELT or CNS courses

Total Hours **42**

Electronics and Computer Technology Pathway

The following Pathway is recommended for students pursuing an Associate in Applied Science degree in Electronics and Computer Technology. For more information or program specific advising contact the department chair. **General Education courses should be selected from the list of IAI General Education Courses.**

Course	Title	Hours
First Year		
Semester One		
ELT 101	Introduction to Electronics	5
ELT 130	Microcomputer Hardware Systems	3
CNS 105	Networking Essentials	3
MAT 114	Applied Mathematics I	4
Hours		15
Semester Two		
EGL 101	Composition I	3
ELT 106	Semiconductor Theory	3
ELT 110	Electronic Drafting Using CAD	4
ELT 140	Computer Peripherals	3
MAT 116	Applied Mathematics II	3
Hours		16
Second Year		
Semester One		
ELT 221	Digital Circuit Fundamentals	3
ELT 223	Integrated Circuits	3
PHY 101	Applied Physics	4
Select one of the following:		3
EGL 102	Composition II	
EGL 111	Introduction to Business and Technical Writing	
EGL 212	Technical Writing Applications	
SPE 103	Effective Speech	
Select one of the following:		3
HUM 165	Introduction to World Music ¹	
HUM 210	World Mythologies ¹	
PHL 205	World Religions ¹	
Hours		16
Semester Two		
ELT 225	Digital Integrated Circuits	3
ELT 231	Fundamentals of Microprocessors	3
MFG 240	Programmable Logic Controllers (PLC)	4
Select one of the following:		3
SOC 101	Introduction to Sociology ²	
SOC 103	Social Problems ³	
SSC 105	Introduction to Ethnic Studies ²	
Select one of the following:		2-3
ELT 150	A+ Certification Preparation	
ELT 154	Fundamentals of Solar Energy Systems	
Hours		15-16
Total Hours		62-63

- ¹ *Course fulfills the Global Studies Requirement. At least one Global Studies course is required for degree completion.*
- ² *Course fulfills the U.S. Diversity Requirement. At least one Global Studies course is required for degree completion.*
- ³ *Course fulfills both, the Global Studies and U.S. Diversity Requirements.*

Note: Pathway is a recommended sequence of courses. Part-time students should contact the department chair to discuss a part-time pathway as well as course prerequisites and recommendations.