

Computer Electronics Certificate of Achievement Coursework Roadmap

Instructions:

Complete the 31-32 units outlined below. Be sure to work with a counselor to assure completion of this certificate.

Year One:

1. Take ELTEC 300.
2. Take CSCI 270 as your first Computer Programming Area selection.
3. Take ELTEC 208 or CSCI 240¹ as your first Networking Area selection.
4. Take CMPET 206.
5. Take your first Industrial Applications Area selection.

¹ CSCI 240 has a prerequisite of satisfactory completion of CSCI 201.

Course Selections:

Units

Term

1. ELTEC 300	<u>3</u>	_____
2. CSCI 270	<u>3</u>	_____
3. ELTEC 208 or CSCI 240	<u>3 or 4</u>	_____
4. CMPET 206	<u>3</u>	_____
5. _____ Industrial Application selection	<u>3</u>	_____

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Industrial Application Area - Complete 6 Units

Course #	Course Title
ELTEC 212 ¹	Digital Principles and Circuits (3)
ELTEC 232 ¹	Introduction to Programmable Logic Controllers (3)
ELTEC 234 ¹	Introduction to PACs: Programmable Automation Controllers (3)
MACH 206 ²	CNC Lathe Programming (3)
MACH 207 ²	CNC Mill Programming (3)
MACH 208 ²	Computer Aided Manufacturing (3)

¹ Completion of ELTEC 208 is recommended for success for ELTEC 212, ELTEC 232 and ELTEC 234.

² MACH 206, MACH 207, and MACH 208 recommend a Math level placement. Please see your counselor.

Computer Programming Area - Complete 6 Units

Course #	Course Title
CSCI 270 ¹	Introduction to Programming (3)
CSCI 221	Programming with Visual BASIC (3)
CSCI 271 ²	Problem Solving and Programming 1 (3)
CSCI 273	Assembly Language Programming (3)

¹ CSCI 270 is the prerequisite courses for CSCI 221 and CSCI 271.

² CSCI 271 is the prerequisite courses for CSCI 273.

Networking Area - Complete 6 Units

Course #	Course Title
CSCI 240 ¹	Networking Essentials (4)
ELTEC 208 ²	Fundamentals of Electricity and Electronics (3)
CSCI 210 ³	Introduction to UNIX/Linux Systems and Programming (3)
CSCI 213 ⁴	Windows Server OS (3)

¹ CSCI 240 has a prerequisite of satisfactory completion of CSCI 201.

² Completion of ELTEC 208 is recommended for success for ELTEC 212, ELTEC 232 and ELTEC 234.

³ CSCI 210 has a prerequisite of satisfactory completion of CSCI 270.

⁴ CSCI 213 has a prerequisite of satisfactory completion of CSCI 240.

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Year Two:

- 7. Take CMPET 210.
- 8. Take CMPET 214.
- 9. Take CMPET 269.
- 10. Take your second Industrial Applications Area selection.
- 11. Take your second Computer Programming Area selection.
- 12. Take your second Networking Area selection.

Course Selections:

Units Term

7. CMPET 210	<u> 3 </u>	_____
8. CMPET 214	<u> 3 </u>	_____
9. CMPET 269	<u> 1 </u>	_____
10. _____ Industrial Application selection	<u> 3 </u>	_____
11. _____ Computer Programming selection	<u> 3 </u>	_____
12. _____ Networking selection	<u> 3 or 4 </u>	_____
Expected Term of Completion	<u> 31-32 </u>	_____