Cybersecurity for Critical Infrastructure Certificate

Cybersecurity for Critical Infrastructure Certificate Requirements

23-24 credits

Code	Title	Hours
Required Courses		
IT 1100	Introduction to Unix/Linux	3
IT 2400	Intro to Networking (Prerequisite: IT 1100 and IT 1500, can be taken concurrently or MTRN 3500)	3
or MTRN 3600	Industrial Networks	
& MTRN 3605	and Industrial Networks Lab	
IT 2700	Information Security (Prerequisite: CS 1400, IT 1100, IT 1500, IT 2400 or CS 3150)	3
IT 3750	Industrial Control Systems Security (Prerequisite: IT 2700 and MTRN 2300)	3
MECH 1200 & MECH 1205	Coding and Coding Lab (Prerequisite: MECH 1000)	4
or CS 1400 & ECE 1200	Fundamentals of Programming and Intro to Microcontrollers	
MTRN 2300 & MTRN 2305	Introduction to Programmable Logic Controllers and Introduction to Programmable Logic Controllers Lab (Prerequisite: MECH 1200)	4
Total Hours		**20**

Code	Title	Hours
Elective Courses (Choose one course)		
SE 3250	Internet of Things Programming (Prerequisite: CS 1410)	3
IT 4510	Ethical Hacking & Network Defense (Prerequisite: CS 1400 and IT 3100)	3
MTRN 2350 & MTRN 2355	Advanced PLC Programming and Applications and Advanced PLC Programming and Applications Lab (Prerequisite: MTRN 2300)	4

Completion Requirements

1. Cumulative GPA of 2.0 or higher
2. Grade C or higher in all required courses.