



Automated Systems with Robotics Certificate

Program Goals Statement

This certificate is designed to develop students' skills and apply their knowledge of electrical & mechanical systems, to prepare them to serve as technicians working with engineers on automated systems used in industry and entertainment. Topics will include pneumatics, hydraulics, electrical and mechanical sensors, switches, motors and other automation hardware, process controllers and programmable logic.

Program Information

- Work with robotics, automation and/or computer controlled systems in industry and entertainment.
- Work as a technician maintaining and troubleshooting amusement rides and mechanical animation.

Subject: Engineering

Type: Certificate

Campus

Campus:

Fall River

Item #

Title

Credits

Program Requirements

Item #	Title	Credits
EGR 113	Introduction to Robotics	4
EGR 171	Fluid Systems	4
EGR 211	Programmable Control Systems	4

Choose one of the following:

Item #	Title	Credits
EGR 131	Introduction to Electrical Circuits	4
EGR 151	Electrical Machinery	3

Choose one of the following

Item #	Title	Credits
EGR 131	Introduction to Electrical Circuits	4
EGR 151	Electrical Machinery	3



Recommended Course Sequence - Semester 1

Item #	Title	Credits
EGR 113	Introduction to Robotics	4
	EGR 131 or EGR 151	3-4

Recommended Course Sequence - Semester 2

Item #	Title	Credits
EGR 171	Fluid Systems	4
EGR 211	Programmable Control Systems	4
	Total credits:	15-16