BCCC

Baltimore City Community College

ROBOTICS/ MECHANTRONICS TECHNOLOGY, AAS

Associate of Applied Science

The Robotics/Mechatronics program trains students to be robotics/automation/manufacturing/electronics technicians who can program, troubleshoot, and repair robots or mechatronics devices in different applications. A robotics/mechatronics technician is a highly skilled person who works with industrial/manufacturing specialists in the rapidly expanding and dynamic industry of automated manufacturing. The robotics/mechatronics student receives extensive training in electronics, computer controls, data acquisition, mechanical controls, pneumatics, electrical power, motors, and hydraulics relative to industrial robots.

The graduates of the program can also transfer to Morgan State University to pursue a BS degree in Engineering with a concentration in Robotics or transfer to Capitol College to pursue a BS degree in Electrical Engineering Technology.

Learn more at
bccc.edu/robotics

ROBOTICS/MECHATRONICS TECHNOLOGY, AAS

60 credit hours

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CAREER OPTIONS

- Automation technicians
- Control technicians
- Electrical technicians
- Electronics technicians
- Machine maintenance technicians
- Mechatronics technicians

BCCC'S ADVANTAGE

- Small class size
- Virtual & remote learning
- Majority of graduates transfer to a bachelor's degree program or find job placements

APPLY TODAY
bccc.edu/apply

SUGGESTED SEQUENCE OF COURSES

Every degree-seeking student must complete the College's General Education Requirements in addition to the requirements of his/her academic program. Through the College's General Education Requirements, students acquire basic knowledge of the disciplines in the areas of arts and humanities, social and behavioral sciences, biological and physical sciences, mathematics, English composition, and computer literacy.

1ST SEMESTER	CREDITS	COURSE #
Preparation for Academic Achievement	1	PRE 100
Computer Literacy	2	CLT 100
DC Circuits Analysis	3	ELC 120
College Algebra & Trigonometry	4	MAT 127
Introduction to Robotics/Mechatronics	4	RBT 105
Health & Life Fitness Elective	1	HLF ELEC
	15 Credits	

2ND SEMESTER	CREDITS	COURSE #
AC Circuits Analysis	3	ELC 121
Fundamentals of Speech Communication	3	SPE 101
Health & Life Fitness	1	HLF ELEC
English Writing	3	ENG 101
Modern Elementary Statistics	3	MAT 107
	13 Credits	

3RD SEMESTER	CREDITS	COURSE #
Fundamentals of Physics I	4	PHY 101
Computer Assisted Manufacturing (CAM)	4	RBT 150
Digital Fundamentals and Circuits	3	ELC 256
Engineering Graphics	3	EGN 101
The American Economy I: Macroeconomic Theory	3	ECO 201
	17 Credits	

4TH SEMESTER	CREDITS	COURSE #
Robotics Applications & Programmable Logic Controllers (PLCs)	3	RBT 204
Robotics Application & Programmable Logic Controllers (PLCs) Lab	1	RBT 206
Mechatronics: Principles and Applications	4	RBT 205
CADD Mechanical Applications	3	CAD 208
Biological and Physical Sciences w/Lab	4	GEN ED REQ
	15 Credits	