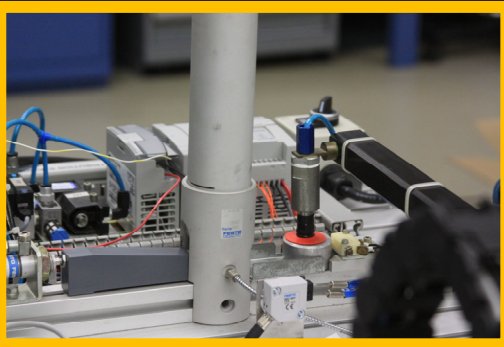


## Salient Features

- ⇒ An important educational aspect of this program is its focus on development of theoretical and practical/hands-on skills.
- ⇒ Every graduates goes through integral laboratory component/activities in all technical courses designed for this major.
- ⇒ The curriculum incorporates advance/latest technology in Automation, Robotics, Controls, Machine Vision, Instrumentation and Sensors, Computing and Processing etc.
- ⇒ An internship in industry and capstone project to solve real-world problems are part of this program.
- ⇒ Graduating students are qualified with strong analytical, theoretical and practical/hands-on skills for future.



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Robotics & Mechatronics Engineering Technology  
School of Engineering, Science, and Technology  
1615 Stanley St, NC 2120900  
New Britain, CT 06050 USA

## Robotics & Mechatronics Engineering Technology



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Phone: 860-832-3516

[www.ccsu.edu/robotics](http://www.ccsu.edu/robotics)

## Program Overview

The Robotics and Mechatronics Engineering Technology (RMET) program of study will require undergraduate work including senior capstone project requirement and an internship in industry. RMET program major requirements has introductory to advance Robotics and Mechatronics courses that prepare students in engineering mechanics, modeling and simulation, electric machines, electronics, control systems, programmable controllers, embedded systems design, data acquisition & processing, fluid power systems, mechanisms for automation, machine vision, instrumentation and sensors, computing and processing etc.



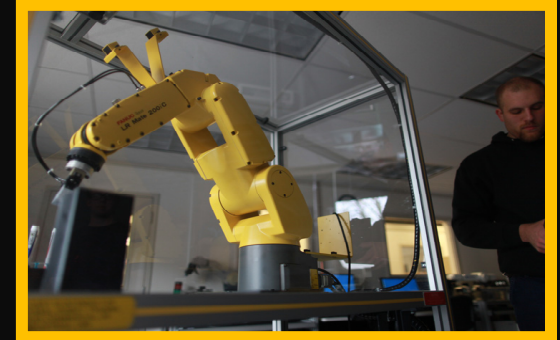
## Career Outcomes

Graduates can Expect to be qualified for wide variety of job opportunities, including, but not limited to:

- ⇒ Robotics Engineer
- ⇒ Controls Engineer
- ⇒ Automation Engineer
- ⇒ Manufacturing Engineer
- ⇒ Control Systems Programmer
- ⇒ Instrumentation Specialist

## Course Requirements

ROBO 110	Intro to Robotics and Mechatronics
ROBO 220	Parametric Modeling and Simulation
ROBO 240	Electric Machines
ROBO 260	Programmable Controllers
ROBO 280	Embedded Systems Design
ROBO 310	Data Acquisition & Processing
ROBO 330	Fluid Power Systems
ROBO 350	Applied Control Systems I
ROBO 370	Mechanisms for Automation
ROBO 380	Mechatronics
ROBO 460	Applied Control Systems II
ROBO 470	Robotics Systems Engr. & Analysis
ROBO 480	Industrial Robotics
ROBO 496	Industrial Internship
ROBO 497	Capstone: Senior Project
CET 236	Circuits Analysis
CET 243	Analog I
CET 363	Digital Circuits
ET 251	Applied Mechanics I - Statics
ET 252	Applied Mechanics II - Dynamics
ET 357	Strength of Materials
ETM 358	Applied Thermodynamics
MATH 221	Calculus II
MATH226	Linear Algebra
MATH 355	Intro to Differential Equations
MFG 216	Manufacturing Processes



## General Education Requirements

Study Area I: Arts & Humanities

Study Area II: Social Sciences

Study Area III: Behavioral Sciences

Study Area IV: Natural Sciences

Skill Area I: Communication Skills

Skill Area II: Mathematics

Skill Area III: Foreign Language

Skill Area IV: University Requirement

