

MECHATRONICS ENGINEERING TECHNOLOGY

LIMITED ENROLLMENT

Delivery Method: On Campus, Some courses available online

Program Description

The Mechatronics Engineering Technology (MET) program is an interdisciplinary technical branch of engineering that focuses on electrical and mechanical systems combining electronics, programming, communications, systems, control, and product engineering.

This degree prepares graduates to work with smart devices that incorporate mechanical, electrical, computer and software components, such as robots, automated guided systems, and computer-integrated manufacturing equipment. As industry advances and the complexity of technical systems continues to evolve, there is a need for qualified individuals to design and develop components and parts to produce safe and efficient automated equipment.

With an emphasis on hands-on learning, courses are both classroom and lab-based. Students gain real-world technical skills in state-of-the-art labs. In addition, students are required to complete cooperative education experiences where they work in an industry setting. Students gain valuable real-world experience and begin building their professional network.

Preparation

This program is designed to allow a student to be admitted as either a transfer applicant or as a direct enrolled applicant. Refer to the BAS Admission Requirements page for Direct Enrollment information.

Students enrolling in the Mechatronics Engineering Technology BAS program as a transfer applicant may have earned an associate in applied science degree in Industrial Automation & Robotics from BSC or an associate in applied science degree, certificate, or diploma in an approved and related program from an accredited institution recognized by Bismarck State College. Previous college coursework, along with industry experience and/or military training, may be considered to determine eligibility.

Computer Requirements

All BSC courses use a Learning Management System (LMS) called Blackboard. Chromebooks, Chrome OS devices, iPads, and mobile devices (iOS, Android phones, tablets) do not allow students to satisfactorily access and complete course content.

Please refer to the Computer Specifications for BSC students.

Program Requirements

Students who complete the curriculum requirements can earn a Bachelor of Applied Science degree in Mechatronics Engineering Technology.

Career Opportunities

Graduates are prepared for careers in the robotics and automation areas directly related to process control, electronic instrumentation, testing, manufacturing, sales and service. Typical engineering technologists' duties may include analysis and design of process control equipment, laboratory testing services, product sales and service, applications engineering, and the development of systems that require a hardware/software interface.

Contact

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Degree Plans

- Mechatronics Engineering Technology Bachelor of Applied Science