

INDUSTRIAL AUTOMATION

LIMITED ENROLLMENT - ON CAMPUS PROGRAM WITH SELECT COURSES AVAILABLE ONLINE

Delivery Method: On campus with some courses also available online

Program Begins: Fall only

Program Description

Automation is a key facet in many industries including manufacturing, food and beverage, energy, logistics, and more. The Industrial Automation program prepares students to install, maintain, repair, operate, and troubleshoot physical machines and control systems used to automate tasks within an industrial process. Using project-based learning, students will complete a solid foundation of electronic, electrical, mechanical, control systems, robotic systems, and their integration to increase the productivity and efficiencies of industrial facilities.

A limited number of students will be accepted into the on-campus program in the fall. Many of the courses in the first 3 semesters may also be available online if the demand is present. These courses have required lab activities that may require travel to the BSC National Energy Center of Excellence in Bismarck. The final semester of INAU courses are delivered exclusively on campus.

Preparation

Those considering an automation career should have a high school background in applied physics and algebra. Knowledge of mechanical, electrical, and/or instrumentation systems is beneficial.

Prospective students should be prepared for the physical demands of entry-level technician positions after completing this program. Typical industry requirements include passing a physical exam, lifting 50+ pounds, climbing ladders, and working in confined spaces or heights. Job applicants also may be required to pass a drug screening and eye exam, including the ability to distinguish between colors accurately.

Program Requirements

Students who complete the curriculum requirements receive an Associate in Applied Science degree.

Required Program Entrance Scores

- ACT: Math 16
- CLASSIC ACCUPLACER: Math 41 (Elementary Algebra)
- NEXT GEN ACCUPLACER: Math 237 (QR, Algebra, and Statistics)

Special Costs

\$100 deposit is required upon acceptance (applied toward tuition). Fee is non-refundable if you decide not to attend BSC.

Career Opportunities

Working in industrial automation provides a high-paying career and exciting opportunities for employment throughout the world. The need for trained automation technicians continues to increase as manufacturing moves toward industry 4.0 standards.

Additional Information

Credits from this program may stack into BSC's Bachelor of Applied Science (BAS) degree in Automation Management*, offered entirely online. This bachelor's degree will upskill individuals with supervisory proficiencies essential in managing industrial manufacturing, production, automation, food and beverage, and logistics and distribution facilities.

* Enrollment into the BAS in Automation Management program will open for applications starting Spring 2022.

Contact

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Degree Plans

- Industrial Automation Associate in Applied Science