INTELLIGENT MACHINE LEARNING

Overview

Degrees Offered: BAS
Program Begins: Fall, Spring, Summer
Delivery Method: Online, On Campus
Phone: 701-224-2429
Email: bsc.cet@bismarckstate.edu

Description

The Intelligent Machine Learning program, developed using Intel's AI and ML framework, emphasizes practical application over theory. Students gain knowledge in natural language processing, computer vision, and deep learning, supported by foundational coursework in programming and mathematics. The program is designed to prepare graduates to apply AI and ML solutions directly to industry challenges.

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 Program Admission (p. 1) tab for additional admission requirements.

Students might consider high school courses in algebra, computers, and statistics to assist them in college study. However, these courses are not mandatory for enrollment.

Requirements

Students are required to have their own modern Windows-based computer that meets BSC's Computer Specifications.

Students who complete the requirements will earn a Bachelor's of Applied Science in Intelligent Machine Learning.

Career Opportunities

Upon completion of this program, students are prepared to work in Artificial Intelligence and Machine Learning application organizations.

College Admission

Review BSC's How to Apply page and complete the college admission requirements.

Program Admission

The Bachelor of Applied Science in Intelligent Machine Learning is designed for qualified students to be directly admitted.

In addition to being admitted to BSC, students must meet program requirements based on their status:

First-Year Applicant
A student who has no prior postsecondary experience or who has earned less than 24 semester credits or 36 quarter credits. Students who earned college credits while still in high school are considered first-year applicants.

Students must apply and be accepted at BSC as degree seeking, in addition to the following requirements:

1. Minimum high school cumulative grade point average – 2.00+
2. Completion of high school core course requirements:
   a. English: four units
   b. Mathematics: Algebra I or above – three units
   c. Laboratory Science: three units
   d. Social Science: three units

Notes:

- Successful completion of a GED exam meets the qualifications for both #1 and #2 above.
- Applicants 25 years of age or older on the first day of class are exempt from the high school core requirements.
- Students who don't meet requirements #1 and #2 will begin their college career in Artificial Intelligence & Machine Learning AAS.
- After the completion of one semester of BSC enrollment with a 2.00 cumulative GPA, a student may request a program change into the Intelligent Machine Learning Bachelor of Applied Science program.

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Transfer Applicant

A student who has earned 24 semester credits or 36 quarter credits from an accredited post-secondary institution.

Students must apply and be accepted at BSC as degree seeking, in addition to the following requirements:

1. Cumulative grade point average – 2.00+ on all accredited post-secondary institutions attended.
2. Student must not be on dismissed or suspension status at their most recently attended institution.

Notes:

- Students who don't meet requirements #1 and #2 will begin their college career in Artificial Intelligence & Machine Learning AAS.
- After the completion of one semester of BSC enrollment with a 2.00 cumulative GPA, a student may request a program change into the Intelligent Machine Learning Bachelor of Applied Science program.

Returning Applicant

Returning to BSC following a break in enrollment or graduation.

Students must apply and be accepted at BSC as degree seeking, in addition to the following requirements:

1. Cumulative grade point average – 2.00+ on credits from all prior accredited post-secondary institutions attended, including BSC.
2. Student must not be on dismissed or suspension status.

Notes:

- Students who don't meet requirements #1 and #2 will begin their college career in Artificial Intelligence & Machine Learning AAS.
- After the completion of one semester of BSC enrollment with a 2.00 cumulative GPA, a student may request a program change into the Intelligent Machine Learning Bachelor of Applied Science program.

Degree Plans

- Intelligent Machine Learning Bachelor of Applied Science

Program Learning Outcomes

Upon graduation, Intelligent Machine Learning students will be able to:

- Apply common artificial intelligence (AI) concepts and methodologies, including neural networks/Deep Learning, machine learning, Natural Language Processing, Computer Vision, and data science, for analysis and decision making.
- Apply artificial intelligence (AI) project development and machine learning life cycle to address social and business issues, opportunities, and problems.
- Apply statistical analysis and machine learning algorithms to predict usefulness of artificial intelligence (AI) programming solutions.
- Use appropriate programming languages to implement artificial intelligence (AI) solutions.
- Communicate in varied settings, orally and visually and in writing, in a culturally responsive manner.
- Collaborate with diverse individuals and teams to design and implement artificial intelligence and machine learning solutions.
- Evaluate issues of bias, culture, environment, ethics, regulations, and professional expectations in the field of artificial intelligence (AI) and machine learning.
- Apply relevant knowledge, skills, and habits of mind while completing program projects and internships.