2026-2027 Undergraduate Catalog

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Artificial Intelligence (AI) + Computer Science, B.S.

The AI + Computer Science major offers a comprehensive blend of core AI techniques and foundational computer science principles, providing students with a deep understanding of both fields. Graduates are prepared to tackle advanced computing challenges, develop AI-driven software, and create intelligent systems, positioning them for careers as software developers, AI engineers, or systems analysts in technology-driven industries.

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Understood

- Acquire new skills and master emerging AI technologies to develop innovative solutions to complex real-world problems;
- Collaborate effectively in diverse, interdisciplinary teams, adapting to the rapidly evolving and dynamic nature of the AI field.

Learning Outcomes

By the time of graduation, the students in the Bachelor of Science with a major in Artificial Intelligence + X program at Bowling Green State University are expected to be able to:

- Analyze AI-related problems and apply principles of artificial intelligence, computing, and other relevant disciplines to identify effective solutions;
- Design, implement, and evaluate AI-based solutions to meet specified requirements for real-world problems in a given discipline;
- Communicate effectively in a variety of professional contexts, particularly those involving AI technologies and applications;
- Make informed judgments in AI practice based on legal, ethical, and societal principles, and recognize professional responsibilities;
- Function effectively as a member or leader of a team engaged in activities appropriate to the AI field, fostering a collaborative and inclusive environment;

BG Perspective (BGP) Requirements

Must complete at least 1 course in each of the following:

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_____ _____

Quantitative Literacy

_____ _____

Must Complete at least 2 courses in each of the following:

Humanities and the Arts

_____ _____

_____ _____

Natural Sciences - at least one Lab Science required

_____ _____

_____ _____

Social and Behavioral Sciences

_____ _____

_____ _____

Complete total required BGP credit hours by selecting courses from any of the above categories:

_____ _____

_____ _____

_____ _____

_____ _____

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domains may be used to fulfill both the BGP requirement and one of the following university requirements:

Cultural Diversity in the US _____
International Perspective _____

Composition Requirement:
WRIT 1120

Total BGP Credits: Must be at least 36

Arts & Sciences Requirements (WLC and QL)

World Languages and Cultures

- Language _____
- Highest Level Completed in HS _____

Consult the Arts and Sciences Student Handbook regarding approved course options in the different language and culture areas.

_____1010_____ _____

_____1020_____ _____

_____ _____

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ing approved course options to complete the lab science sequence.

_____ _____

_____ _____

Quantitative Literacy

_____ _____ **EITHER** MATH 1310 **OR** MATH 1340 & MATH 1350

AI + X, Major Requirements

AI+X Common Core

Students who are in an AI+X program major are required to complete this set of courses. (21 Hours)

- CS 1010 - Introduction to Python Programming
- CS 2200 - Introduction to AI/ML and Applications

- CS 3000 - Professional and Societal Issues in Computing

  or
- MDIA 3670 - AI Ethics & Society

  or
- PHIL 2050 - The Ethics of A.I. and Technology

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Students who are in AI+X program majors are required to complete one course from Application AI list. (3 Hours)

- ECE 4575 - Artificial Intelligence in Electric Energy Systems

  or
- EDTL 4300 - Artificial Intelligence in Educational Settings

  or
- ENG 3030 - Writing in Context

  or
- ENG 3880 - Introductory Technical Writing

  or
- ROBO 4231 - Machine Vision in Robotics

AI+X Examination of AI Elective

Students who are in AI+X program majors are required to complete one course from Examination of AI list. (6 Hours)

- ADV 3330 - AI & New Technologies in Advertising

  or
- HIST 4812 - History in the Age of AI

  or
- PHIL 3100 - Philosophy of Consciousness and Intelligence: Humans and A.I.

  or
- POLS 4810 - The Politics of Artificial Intelligence

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or

- MATH 1340 - Calculus and Analytic Geometry IA **and**
- MATH 1350 - Calculus and Analytic Geometry IB

- MATH 2470 - Fundamentals of Statistics

  or
- MATH 3410 - Principles of Probability and Statistics

- MATH 3320 - Elementary Linear Algebra
- MATH 3430 - Computing with Data

Computer Science Requirements

Students who are in AI+CS major are required to complete the following courses. (15 Hours)

- CS 2010 - Programming Fundamentals
- CS 2020 - Intermediate Programming
- CS 3350 - Data Structures
- CS 4120 - Design and Analysis of Algorithms
- MATH 2220 - Discrete Mathematics

AI + CS Experiential Learning Requirement

Students who are in AI+CS major are required to complete one course from the following list. (1-3 Hours)

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- CS 3900 - Internship in Computer Science

  or

- CS 3901 - Internship in Computer Science

  or

- CS 4900 - Independent Project

Recommended CS/SE Elective Courses:

Students interested in addtional Computer Science courses are recommended to take:

- CS 3140 - Web Application Development
- CS 3160 - Windows Application Development
- CS 3180 - Mobile Application Development
- SE 3540 - Introduction to Software Engineering

For Graduation You Will Need:

1. University minimum of 120 credit hours.
2. Minimum GPA 2.00.
3. At least 30 credit hours of BGSU course work.
4. A minimum of 40 credit hours at the 3000/4000 level.
5. Completion of all degree requirements, including the BG Perspective Core.
6. A major, and if required, a minor, specialization or emphasis.

Any substitution or waiver of courses required for your major or minor program must originate in the department/school offering the major or minor

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Student Center based on the dates posted in the degree audit. After the application deadlines, students must complete an online application located on the College of Arts and Sciences website. Contact the College of Arts and Sciences with questions.

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