



Search

GO

Purdue School of Science

[Overview](#) |
 [Policies & Procedures](#) |
 [Undergraduate](#) |
 [Graduate](#) |
 [Admission](#) |
 [Departments & Programs](#) |
 [Courses](#)

[Department of Biology](#)

[Biotechnology Program](#)

[Department of Chemistry and Chemical Biology](#)

[Department of Computer and Information Science](#)

[Department of Earth Sciences](#)

[Environmental Science Program](#)

[Forensic and Investigative Sciences Program](#)

[Interdisciplinary Studies](#)

[Department of Mathematical Sciences](#)

[Neuroscience Program](#)

[Department of Psychology](#)

[Department of Physics](#)

[Special Programs](#)

[IUPUI Bulletins](#) » [Schools](#) » [purdue-science](#) » [Departments & Programs](#) » [Department of Computer and Information Science](#) » [Certificate in Artificial Intelligence](#)

Departments & Programs

Department of Computer and Information Science

Certificate in Artificial Intelligence

Artificial intelligence is an impactful technology that many industries have started to adopt to increase productivity, efficiency, and quality. It is likely that many graduates from diverse majors will apply artificial intelligence algorithms or use results produced by artificial intelligence in their careers. Thus, artificial intelligence will impact and shape industries and their workforces in many ways. Some will develop AI technologies, and many others will consume AI information but must also understand the domain in which AI technology is being applied. Thus, both “technical people” and “lay people” must be trained in artificial intelligence and related technologies. The purpose of this certificate is to let undergraduate and stand-alone certificate students learn and apply artificial intelligence concepts and earn a credential.

Admission Requirements

- Candidates for this certificate are required to be formally admitted by the IUPUI Office of Admissions. Current IUPUI students must have a 2.00 IU Cumulative GPA or better for admission.

Program Requirements

Students are required to successfully complete 16 credit hours (five courses) to earn the certificate. At least 3 courses in the certificate program must be taken in the School of Science at IUPUI. An IU Cumulative GPA of at least 2.00 is required to complete the certificate program

Required Courses (16 credit hours):

- Certificate programming course requirement (must be at least 4 credits) – CSCI 23000 Computing I is most common options
- AIE/AII/AIS 10000 (3 credits)
- AIE/AII/AIS 20000 (3 credits)
- AIE/AII/AIS 30000 (3 credits)
- Certificate elective list requirement (3 credits) – see below for course options

Certificate elective options – choose 1 (3 credit hours):

- CSCI-N 207 Data Analysis Using Spreadsheets
- CSCI-N 211 Introduction to Databases
- CSCI-N 311 Advanced Database Programming, Oracle

- CSCI-N 317 Computation for Scientific Applications
- CSCI 48100 Data Mining**
- CSCI 48700 Artificial Intelligence**
- CSCI 48900 Data Science**

**prerequisites for this course are outside of the certificate coursework

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