

APPLIED ARTIFICIAL INTELLIGENCE, MINOR

Program Overview

The minor in applied artificial intelligence is available to all undergraduate students. No prior experience or knowledge in computing is assumed or required. Students completing the minor in applied artificial intelligence will learn how modern artificial intelligence applications work, how to choose the appropriate application for a problem, how to correctly deploy an artificial intelligence application, and how to weigh the benefits and risks of using the application. Students will gain practice in applying artificial intelligence techniques in different disciplines.

Learning Outcomes

- Students completing the program will have the ability to apply techniques and tools of artificial intelligence to solve novel problems in a discipline of their choice.
- Students completing the program will have the ability to make informed judgements about the proper artificial intelligence tools to use in different problem scenarios.
- Students completing this program will recognize their professional responsibilities and have the tools to make informed judgements about the societal benefits and risks of applications they are building.

Undergraduate Policies

For undergraduate policies and procedures, please review the [Undergraduate Academics](#) section of the General Bulletin.

Program Requirements

The minor in applied artificial intelligence consists of five courses: two required courses; one course on the societal impacts of artificial intelligence; and two electives where students apply artificial intelligence techniques in different disciplines.

Code	Title	Credit Hours
Required Courses:		
CSDS 101	The Digital Revolution: Computer and Data Science For All	4
CSDS 102	Artificial Intelligence for All Disciplines	3
Societal Impact Course		3
<i>Choose one of the following:</i>		
CSDS 225	Current Issues in Artificial Intelligence, For Better or Worse	
COGS/ENGL/ HUMN/RLGN 250	Responsible AI: Cultivating a Just and Sustainable Socio-technical Future through Data Citizenship	
PHIL 210	The Politics of Artificial Intelligence	
PHIL 393	Ethics of Artificial Intelligence and Emerging Technology	
AI Application Electives		6
<i>Choose at least two of the following for at least six credits:</i>		
BAFI 335	Applying Artificial Intelligence and Blockchain in Business and Finance	

BAFI 351	Financial Data Science: Data Analytics & Machine Learning Fundamentals
BAFI 357	Financial Modeling
BAFI 432	Corporate Risk Management
BUAI 446	Machine Learning and Artificial Intelligence in Business Analytics
COGS 330/430/ DSCI 330/430	Cognition and Computation
ECON 327	Advanced Econometrics
ECON 334	Economics of Artificial Intelligence and Digital Platforms
ECON 380	Computational Methods for Economic Modeling
ECON 381	Machine Learning for Predictive Analytics in Economics
FTEC 412	Algorithmic Trading
HUMN 305/405	Coding for the Humanities: Python, Natural Language Processing, and Machine Learning
MBAP 429H	Artificial Intelligence Applications in Healthcare Management
PQHS 416	AI in Medicine: Knowledge Representation and Deep Learning
SASS 471	Introduction to Data Science for Social Impact
SASS 472	Semester Research Project in Data Science for Social Impact
SCMG 462	Artificial Intelligence Fundamentals for Supply Chain Management
SCMG 463	Case Studies in Artificial Intelligence - Supply Chain Applications
SYBB 464	Artificial Intelligence for Biomedical Research
Total Credit Hours	

16