

APPLIED ARTIFICIAL INTELLIGENCE

Minor in Applied Artificial Intelligence

Applications of Artificial Intelligence (AI) are permeating nearly every aspect of society, from healthcare diagnostics, financial analysis, and transportation optimization to enhancing educational methodologies, driving innovations in entertainment, and shaping more efficient and personalized customer experiences. The Applied AI minor is available to all undergraduate students at Iowa State University. It provides foundational knowledge on the use of AI using low-code or no-code tools available to a wide range of users. A useful analogy is that of being able to drive a car versus produce it or perform work under the hood. The minor also helps students understand the ethical, social, cultural, and economic implications of increased AI use.

The minor in Applied Artificial Intelligence requires the completion of 15 credit hours, including a 6 credit core plus 9 additional credits selected from the approved list.

MINOR

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AI 2010X	Introduction to Applied AI	3
AI 2020X	Ethical Design, Use, and Impact of AI	3
Choose 9 additional credits from the list below		9
ANTHR 3160X	Anthropology and Artificial Intelligence	
COMS 4720	Principles of Artificial Intelligence	
COMS 4760	Motion Planning for Robotics and Autonomous Systems	
COMST 3300	Computer Mediated Communication	
DES 2500 Special	Design Intersections - AI in Art and Design *	
DS 2010	Introduction to Data Science	
DS 3010	Applied Data Modeling and Predictive Analysis	
ECON 3830X	Economics of Innovation	
EDUC 4540	Emerging Topics in Educational Technology - Introduction to AI in Education	
EE 4250	Machine learning: A Signal Processing Perspective	
EE 4280X	Image Analysis using Machine Learning	
ENGL 2220X	Artificial Intelligence and Writing	
IE 4830	Data Mining	
IE 4870	Big Data Analytics and Optimization	

JLMC 4740	Communication Technology and Social Change
MATH 4220X	Mathematical Principles of Data Science
ME 2800X	Design and Analysis of Cyber-Physical Systems
MIS 4360	Introduction to Business Analytics
MIS 4460	Advanced Business Analytics
MKT 4560X	Digital Marketing Analytics
PHIL 3430	Philosophy of Technology
PSYCH 3500	Human Factors in Technology

At least 6 credits must be taken at Iowa State University in courses numbered 3000 or above.

At least 9 credits used for the minor cannot be used to meet any other department, college or university requirement for the baccalaureate degree except to satisfy the total credit requirement for graduation and to meet credit requirements in courses numbered 3000 or above.

Courses taken for a minor may not be taken on a pass-not pass basis.