

AI FUNDAMENTALS AND APPLICATIONS CERTIFICATE

Open to all Majors

The AI Fundamentals and Applications Certificate is intended for undergraduates of all majors (both technical and non-technical) to understand fundamentals of Artificial Intelligence, its applications to real world problems in various disciplines, and ethical and professional responsibilities of these technologies. The certificate consists of a required fundamentals course, a college specific application course and an ethics course. Students use high level AI tools and apply them to problems in their disciplines

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About this Program

- **College:** Herbert Wertheim College of Engineering (<https://catalog.ufl.edu/UGRD/colleges-schools/UGENG/>)
- **Credits:** 9 | Completed with minimum grades of C
- Student Learning Outcomes (SLOs) (<https://public.tableau.com/app/profile/uf.oipr4918/viz/UFLStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes>)

Certificates must comply with the Certificate Policy.

Enroll in UF's artificial intelligence certificate program where all undergraduate students, regardless of major, can learn how to apply artificial intelligence in their discipline. No background in computer programming, engineering, or data science is needed. Pursuing courses in AI can put students ahead of the curve when applying for internships or jobs. Students can obtain the skills needed to join the AI-trained workforce of the future.

This university-wide certificate prepares students to understand the fundamentals of artificial intelligence, its applications to real-world problems in various disciplines, and ethical and professional responsibilities of these technologies. The certificate consists of two required courses, a fundamental course and an AI ethics course. After completing those, students take a third elective course in the application of ethics in their discipline. Students learn how to use AI and apply them to maximize efficiency or solve problems within their discipline.

To obtain this certificate, students must apply before they take the second course.
More Info (<https://admissions.ufl.edu/apply/certificates/>)

To earn the certificate, students must apply to graduate with it.
More Info (<https://registrar.ufl.edu/services/degree-application/>)

ADMISSION CRITERIA

Junior level of any major, MAC 1147 or equivalent. Some elective courses require prerequisites which are fulfilled by the majors indicated.

REQUIRED COURSES

Code	Title	Credits
EEL 3872	Artificial Intelligence Fundamentals	3
PHI 3681	Ethics, Data, and Technology	3
College-specific course (select one):		3
<i>Education</i>		
EDP 3211	Cognitive and Educational Science in AI	
<i>Engineering</i>		
BME 4760	Biomedical Data Science	
EEE 4773	Fundamentals of Machine Learning	
CAP 3032	Interactive Modeling and Animation 1	
ESI 4610	Introduction to Data Analytics	
<i>Health and Human Performance</i>		
HFT 4442	Artificial Intelligence Revolutions and Applications in Tourism, Hospitality, and Events	
<i>Liberal Arts and Sciences</i>		
BSC 4892	AI in Biology	
CAP 3032	Interactive Modeling and Animation 1	
CLA 3811	AI in Antiquity and Today	

GIS 4123C	GeoAI – Geographic Artificial Intelligence
IDS 3750	Artificial Intelligence in the Social Sciences
WST 4002	Data Feminisms
<i>Agricultural and Life Sciences</i>	
ALS 3200C	AI in Agricultural and Life Sciences
<i>Business</i>	
QMB 3302	Foundations of Business Analytics and Artificial Intelligence (AI)
<i>Design, Construction, & Planning</i>	
DCP 4300	AI in the Built Environment
<i>Journalism and Communication</i>	
JOU 3365	Artificial Intelligence in Media and Society
<i>Public Health and Health Professions</i>	
PHC 3793	Higher Thinking for Healthy Humans: AI in Healthcare and Public Health
PHC 4796C	Artificial Intelligence in Psychological and Brain Sciences

Total Credits**9**