Master of Science in Applied Artificial Intelligence

FULL-TIME PROGRAM

Take the Next Step and Transform Your Career

Earn Your MS in Applied Artificial Intelligence

This on-campus full-time (FT) Master of Science in Applied Artificial Intelligence (MS-AAI) program is offered through USD's Shiley- Marcos School of Engineering. The Master of Science in Applied Artificial Intelligence at University of San Diego is an intensive project-based program directed at graduate students looking to assume responsibilities related to the development and deployment of AI-based systems and machine learning projects in corporations.

Course of Study

This 30-unit program provides full-time coursework and can be completed in one year (three semesters). Program courses place a significant emphasis on real-world applications, ethics, privacy, moral responsibility and social good in designing AI-enabled products.

Who is the program for?

Bachelor-prepared traditional students and professionals who plan to work in positions within an enterprise that require the application of AI-based tools and techniques for automated data-driven decision-making and need a full-time one-year program.

Subject to change.

Admission Requirements

-Bachelor's degree from an accredited institution
-Bachelor's GPA of 2.75 or higher
-International students require TOEFL scores of 83 or more, or IELTS of 7 or more, or a minimum total score of 120 on the Duolingo English Test
-Resume or Curriculum Vitae
-Recommendation letters from the candidate's supervisor, manager, and/or former academic professors.

Program Objectives

-Develop technologies for the deployment of AI-based systems and software for automated decision making.

-Apply principles and techniques of AI such as machine learning, computer vision and NLP and IoT to tackle problems in industry related to technology, operations, health care, defense, finance, marketing and corporate development.

-Apply ethical standards, privacy preserving techniques and socially

responsible practices to the collection, dissemination and analysis of data for data-driven business decision making.

-Be effective leaders and managers in articulating the value of AI-based systems and software for organizations and corporations.

-Apply AI-based techniques and decision making for solving engineering problems while advancing the social good.

MS IN APPLIED ARTIFICIAL INTELLIGENCE
PROGRAM CURRICULUM DESIGN

The MS-AAI program consists of 10 courses total. Each student will take 2 foundational courses (AAI 500 and 501), 7 core courses (AAI 510, 511, 520, 521, 530, 531, 540) and 1 capstone courses (AAI 590). Students will follow the curriculum path as prescribed below.

Semester	Summer		Spring		Fall	
A	AAI 500 (3 Units)	AAI 510 (3 Units)	AAI 511 (3 Units)	AAI 520 (3 Units)	AAI 521 (3 Units)	AAI 590 (3 Units)
B	AAI 501 (3 Units)		AAI 530 (3 Units)	AAI 531 (3 Units)	AAI 540 (3 Units)	
	Total Units	9	Total Units	12	Total Units	9

For this on campus program, courses are taught in 7-week blocks with two blocks (A & B) for each semester (14 Weeks).

Foundational Courses

- AAI 500 – Probability and Statistics for Artificial Intelligence
- AAI 501 – Introduction to Artificial Intelligence

Core Courses

- AAI 510 – Machine Learning: Fundamentals and Applications
- AAI 511 – Neural Networks and Deep Learning
- AAI 520 – Natural Language Processing
- AAI 521 – Introduction to Computer Vision
- AAI 530 – Data Analytics and Internet of Things
- AAI 531 – Ethics in Artificial Intelligence
- AAI 540 – Machine Learning Operations

Capstone Course

- AAI 590 – Capstone Project

WASC
Senior College and University Commission

Subject to change.