![University of Houston-Downtown, College of Sciences & Technology logo](UHD logo)

Master of Science in
ARTIFICIAL INTELLIGENCE

Earning Potential

According to the department of Labor and Bureau Statistics (BLS), the national average salary for:

- Machine Learning Engineer: **$90,160**
- Data Scientist: **$104,170**
- Business Intelligence Developer: **$110,140**

Delivery Options

- On Campus

Contact

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In the Master of Science in Artificial Intelligence (MSAI) program students learn to recognize the psychological and design implications of human interactions with intelligent systems and how business needs affect the way intelligent systems are considered and deployed.

About the Program

The Master of Science in Artificial Intelligence program (MSAI) is an application-oriented program that combines theoretical knowledge of AI with hands-on training in AI-specific applications through programming languages such as Python and open-source libraries such as TensorFlow.

Graduates of the program will learn to:

- Explore, prepare, and clean data
- Transfer data into machine-learning representations of unsupervised, supervised, or reinforcement learning
- Design and develop intelligent agents and expert systems that receive percepts from the environment and perform actions
- Communicate and summarize AI solutions in written, oral, and visual form

The MSAI program requires a minimum of 30 hours including:

- 19 hours of foundational courses with topics in knowledge representation and reasoning, machine learning, deep learning, and cognitive systems. Students also take 9 hours of interdisciplinary application courses such as computer vision, robotics, engineering of AI systems, AI in biomedical, and AI in business intelligence. In the final 3 hours, students will have the opportunity to engage in research with faculty members at UHD and other collaborators of UHD faculty and/or internships with partnering businesses, industry, and government agencies.

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Career Opportunities

In recent years, AI career opportunities have escalated due to its surging demands in industries. The MSAI program prepares students to succeed in a range of jobs including:

- AI Data Analyst Product Manager
- AI Engineer Robotics Scientist
- Computer Vision Architect - Applied AI
- IoT/EDGE Computing Engineer
- Cloud Engineer
- Machine Learning Engineer

Required Courses (7 courses / 21 credit hours)

CS 5310	Data Mining
CS 5332	Introduction to Artificial Intelligence
CS 6304	Deep Learning
CS 6310	Natural Language Processing
CS 6305	Computer Vision
CS 6332	Advanced Artificial Intelligence
CS 6382 or CS 6380/6399	Capstone in last semester

Elective Courses (3 courses / 9 credit hours)

CS 6307	Cognitive Systems
CS 6308	AI in Biomedical
CS 6311	AI in Business Intelligence
CS 6309	Intelligence Interactive Systems
CS 6331	Robotics Process Automation

Note: Student must maintain a minimum grade point average of 3.0.

Foundational courses are available for candidates who have Calculus I and at least one programming course. More information can be found online at uhd.edu/MSAI.

Next Steps

Applicants must complete and submit all of the following items:

- Apply for admissions online via Apply Texas: **goapplytexas.org**
- Submit your $35 application fee for a domestic applicant and $80 for an international applicant.
- Request /submit official transcripts from the institution where the applicant received a bachelors degree, and any graduate schools attended.
- Provide a personal statement of approximately 1,000 words that addresses your qualifications and interest in pursuing the program.
- Provide two recommendations from academic, professional, or personal contacts with knowledge of your work and academic potential.
- Provide TOEFL/IELTS scores (for international and/or non-native English speaking applicants)

Email:
gradadmissions@uhd.edu

Or mail to:
Office of Admissions – Graduate Admissions

University of Houston-Downtown One Main Street, Suite GSB 308 Houston, TX 77002-1001

GRE waiver options available.