

INFORMATION SYSTEMS AND ARTIFICIAL INTELLIGENCE FOR BUSINESS, MASTER OF SCIENCE

The Master of Science in Information Systems and Artificial Intelligence for Business (ISAI) program focuses heavily on AI, offering a comprehensive AI curriculum that equips students with critical thinking and problem-solving abilities. The immersive program addresses the evolving demands and trends of the AI, and covers topics like machine learning, deep learning, generative AI, responsible AI, human-AI fusion, and AI development and business applications. In a rapidly evolving business world driven by the unprecedented pace of AI advancements, you will graduate with the specialized skills in AI technology and management needed to become a stronger leader and stay ahead of the competition.

International students in F-1 status who complete this program and obtain post-completion Optional Practical Training (OPT) (<https://ois.jhu.edu/students/current-f-1-students/f-1-training-and-employment/optional-practical-training/>) may be eligible for the STEM OPT Extension (<https://ois.jhu.edu/students/current-f-1-students/f-1-training-and-employment/opt-stem-extension/>). Students should consult the Office of International Services (<https://ois.jhu.edu/contact-ois/announcements/>) if they have questions about this benefit.

Program Requirements

The program requires 36 credits. Full-time MS students must complete the program in three semesters: fall, spring, and summer. Course waivers are not granted.

Curriculum

The ISAI program curriculum includes the following courses. The course sequence and availability of specific electives may vary. Students must consult with their academic advisor to ensure they take courses in the approved sequence. All courses are 2 credits.

Code	Title	Credits
Business Foundations		
BU.120.601	Business Communication	2
BU.131.601	Business Leadership and Human Values	2
BU.510.601	Statistical Analysis	2
Functional Core		
BU.520.710	AI Essentials for Business	2
BU.330.705	Cyber Networks: Securing the Digital Frontiers	2
BU.350.620	Digital Transformation of Business	2
BU.330.740	Large Scale Computing on the Cloud	2
BU.330.775	Machine Learning: Design and Deployment	2
STEM Courses		
BU.520.601	Business Analytics	2
BU.330.770	Database Management	2
BU.330.760	Generative AI	2
Elective Courses		
Select seven of the following:		14

BU.210.620	Accounting and Financial Reporting
BU.520.620	Advanced Business Analytics
BU.330.785	Advanced Database Management
BU.520.750	AI-Driven Sequential Decision Making
BU.330.750	AI Development and Business Applications
BU.610.705	Crisis Management
BU.330.710	Cybersecurity and Data Vulnerabilities
BU.510.650	Data Analytics
BU.330.780	Data Science and Business Intelligence
BU.520.650	Data Visualization
BU.330.770	Database Management
BU.300.700	Developing Internet Systems and Services
BU.610.740	Forecasting Models for Business Intelligence
BU.883.702	Health Information Technology
BU.330.765	Human-AI Fusion
BU.350.700	Introduction to Java for Business
BU.350.710	IT and Global Sourcing Strategy
BU.350.790	IT Consulting Lab Practicum
BU.300.620	Managing Complex Projects
BU.410.620	Marketing Management
BU.680.620	Operations Management
BU.510.615	Python for Data Analysis
BU.330.735	Responsible AI
BU.610.615	Simulation for Business Applications
BU.450.765	Social Media Analytics
Carey Elective - Students may fulfill ONE general elective with a Carey course for which they meet the prerequisites and enrollment criteria.	

Total Credits

36