Business Applications in Artificial Intelligence Undergraduate Certificate~~Undergraduate Certificate in Artificial Intelligence~~ -2027-2028 Catalog

Department of Management Information Systems

College of Business

Catalog Description

The Undergraduate Certificate in Artificial Intelligence provides students with the technical and analytical competencies needed to design, implement, evaluate, and manage artificial intelligence solutions in organizational settings. The curriculum develops proficiency in business applications programming, data analytics, artificial intelligence concepts, machine learning methods, and the application of AI technologies to business decision making and organizational performance.

Students completing the certificate will develop skills in:

- Business applications programming and technology solution development
- Data preparation, analysis, visualization, and AI-assisted analytics
- Artificial intelligence concepts, methods, and business applications
- Machine learning model development and evaluation
- AI-enabled decision support and process automation
- Application of emerging AI technologies to organizational challenges
- Data-driven problem solving and technology implementation

These competencies support a variety of career paths across information systems, analytics, and technology-enabled business functions. The certificate is particularly relevant for professionals pursuing careers such as business analyst, systems analyst, data analyst, business intelligence analyst, AI analyst, information systems manager, analytics consultant, technology consultant, data product specialist, digital transformation professional, and other roles requiring the effective use of artificial intelligence and machine learning within organizations.

The certificate is designed as a stackable credential within the Bachelor of Science in Management Information Systems program. Because all certificate courses are required components of the B.S. MIS curriculum, students enrolled in that degree program may earn the certificate while completing degree requirements. The certificate is also available to undergraduate students from other disciplines who are able to complete the required

Commented [AK1]: This needs to be more specific; this is not general AI and makes it impossible for CS or other more general AI programs to have an AI certificate. This needs to be AI Data Analytics or AI in Business, AI Business Utilization

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course sequence and who seek specialized preparation in the application of artificial intelligence to business and organizational settings.

Curriculum Courses

1. ISAM - 3304 - Introduction to Business Applications Programming 3
2. ISAM - 4335 - Data Analytics with AI 3
3. ISAM - 4336 - Introduction to Artificial Intelligence 3
4. ISAM - 4341 - Generative AI for Business 3
5. ISAM - 4342 - Machine Learning in Business 3

Certificate is embedded/stackable within the degree program

Texas Program CIP Code: 11.0401.00 02

Method of Delivery:

Face to Face, Hybrid and 100% Online

UHCL Main Campus

Fall 2027