

# MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE IN BUSINESS

The Master of Science (M.S.) in Artificial Intelligence (AI) in Business is an interdisciplinary graduate program designed to equip students with advanced knowledge and practical skills at the intersection of AI and business strategy. This program integrates cutting-edge AI methodologies, machine learning techniques, statistical modeling, and data-driven decision-making with core business principles to prepare graduates for leadership roles in an increasingly digital and analytics-driven economy.

Students will engage in a rigorous curriculum that covers key areas such as predictive analytics, language models, reinforcement learning, and AI-driven business intelligence. The program emphasizes hands-on learning through industry collaborations, real-world case studies, and applied projects, ensuring that students develop both technical proficiency and the ability to translate AI-driven insights into actionable business strategies.

## Student Learning Outcomes

1. Students will demonstrate mastery of artificial intelligence techniques and business analytics methodologies.
2. Students will lead and manage AI-driven initiatives within organizations.
3. Students will integrate AI and analytics into business processes to solve real-world organizational problems.
4. Students will evaluate the ethical implications of AI applications in business contexts.
5. Students will communicate data-driven findings to diverse stakeholders effectively.

## Admission Requirements for the MS in AI Program

1. Completed application for admission. You can find the application online (<https://umw.edu/graduate/>).
2. Application for Virginia In-State tuition rates, if applicable.
3. Official transcript(s) showing completion of a baccalaureate degree from a regionally-accredited college or university.

## Deferred Enrollment

Accepted applicants may ask the College of Business for the option of deferring enrollment for up to two consecutive semesters. Each case is considered on an individual basis. Those who are granted deferred enrollment are subject to rules, regulations, and financial charges in effect when they actually enroll. Students who enroll at another institution before enrolling at the College of Business must reapply for admission.

*In cases involving military deployment, mobilization, or change in duty assignment, accepted applicants may request to extend the enrollment deferral for longer than two consecutive semesters. Any such requests*

will be considered on an individual basis. A copy of the person's military orders must be provided to the Office of Admissions to support such a request.

## Readmission to the M.S. Program

Students who have not attended the University for three consecutive semesters, excluding summer session, must apply for readmission through the Office of Admissions. Students who are readmitted are subject to the degree requirements in effect at the time of readmission. When a student is readmitted, the six-year limit from time of first admission is still in effect. Academic work that was completed more than six years before the date at which the M.S. is awarded may not be used to satisfy the degree requirements. If a student needs additional time to complete the degree, the student must apply in writing to the Director of Accreditation and Graduate Programs for an extension. Such requests must be received at least one month prior to the end of the student's original six-year time limit.

A student who has been suspended from the program may apply for readmission after a lapse of three semesters. Applicants for readmission must meet current minimum admission requirements. Readmission to the program is not guaranteed.

## M.S. in AI in Business Degree Requirements

Successful completion of all required core course and elective courses with a cumulative grade-point average of 3.0 or higher is required to meet degree requirements. All required course work must be completed within six years of matriculation into the program.

## M.S. Course Requirements (30 Credits)

Code	Title	Credits
GBUS 561	Python for Business Analytics	3
GBUS 562	AI Language Models	3
GBUS 563	AI Solutions for Business	3
GBUS 564	Predictive Analytics	3
GBUS 565	Optimization and AI Planning	3
GBUS 566	Reinforcement Learning	3
GBUS 568	AI and Business Strategy	3
<b>Electives</b>		
Select 9 additional credits from among GBUS courses numbered 506 or above.		9
<b>Total Credits</b>		<b>30</b>

## Transfer Courses

Ordinarily, a maximum of six graduate credits can be transferred into the M.S. in AI in Business. To be accepted for transfer credit, courses must have been taken from a regionally accredited institution within the last six years with a minimum grade of B and must directly relate to one of the MS program courses. Transfer credit is not given for internship or practicum experiences.

## Requirements for Continuance in the M.S. Program

All matriculated M.S. students are expected to maintain satisfactory academic progress in their graduate courses toward completion of the M.S. program. A cumulative GPA of 3.0 (B) or higher is required for graduation from the program.

Students must maintain a minimum cumulative GPA of 3.0 (B) in each 8-week session to remain in good academic standing. Any student whose cumulative GPA is below 3.0 at the end of any session will have the following session to correct the deficiency.

A student who earns three Cs (including C+ or C) or one F in graduate courses in the program will automatically be suspended from the program.

*Students who voluntarily interrupt their enrollment for one to three semesters should refer to the Leave of Absence policy in the "Admission and Enrollment" section.*

## **M.S. in AI in Business Program Faculty**

### **Professors**

Julius N. Esunge  
Christopher J. Garcia  
Mukesh Srivastava

### **Assistant Professors**

Prashant Chandrasekar  
Evan C. Coleman