

DATA SCIENCE, CERTIFICATE

The Data Science Certificate program will not be admitting new students for the 2025-2026 academic year.

Program Description

The certificate provides students with the knowledge and skills to review and integrate big data sets and provide visual representation of results. The program mixes statistical analysis with data preparation to provide visual results to questions. The program includes coding skills specifically for Big Data.

Mission

The Data Science Certificate educates students in theoretical and practical concepts related to Big Data. Students develop data connections and use analytical techniques to answer specific questions related to the data.

Program Goals

- Prepare students to enter the field of data science
- Prepare students to extend data analysis through the use of data science methods

Program Specific Information

This certificate may be applied as an option for the M.S. Computer Information Science, M.S. Cybersecurity or M.S. Economic Crime Forensics programs.

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Degree or Certificate Earned

Certificate

Required for Program Completion

- Courses
 - 5
- Credits
 - 15
- GPA
 - 3.0

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Student Learning Outcomes

- Explain data relationships based on real world variables
- Use statistical methods to develop data models
- Construct and transform views of relevant data sources based on independent variables
- Prepare data learning based on data views

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Academic Requirements

Code	Title	Credits
CIS 523	Data Processing and Database Management	3
CIS 633	Data Analysis with R	3
CIS 654	Artificial Intelligence	3
CIS 658	Data Mining	3
Elective		3
Total Credits		15

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Course Sequence

Course	Title	Credits
First Year		
First Semester		
CIS 523	Data Processing and Database Management	3
CIS 633	Data Analysis with R	3
Credits		6
Second Semester		
CIS 654	Artificial Intelligence	3
Elective		3
Credits		6
Third Semester		
CIS 658	Data Mining	3
Credits		3
Total Credits		15

Faculty

Director: Yang Wang, Ph.D.

Associate Professors: Blum, Redmond, Wang

Assistant Professors: Yin

Lecturers: Casey, McCoe, McGinley

Program Contact Information

Data Science Certificate

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Staff Contact Information

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Program Director

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