FULL STACK ENGINEERING, CERTIFICATE

The Full Stack Engineering Certificate program will not be admitting new students for the 2025-2026 academic year.

Program Description

This certificate introduces students to the current technologies used to automate processes. The program includes content in cloud scenarios, big data, mobile development, and emerging technologies such as Artificial Intelligence and Blockchain.

Mission

The mission of the Full Stack Engineering Certificate is to provide learners with development opportunities related to emerging technology processes and platforms. The certificate seeks to prepare computing professionals to keep pace with the dynamic nature of the technology enhancements and provide a foundation to adapt the new technologies for current needs.

Program Goals

- Students will manage the end-to-end life cycle for the production of software and applications.
- Students will analyze, write, build, and deploy software application solutions.
- Students will modify and test new technologies enhancements to developed solutions.

Program Specific Information

Students may complete this certificate and apply it towards the M.S. Computer Information Science masters program.

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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

- Design and develop user friendly interfaces
- Design and develop internet processing applications for multiple device types
- Perform database maintenance processing
- Evaluate the use of new technology systems

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Academic Requirements

Code	Title	Credits
CIS 621	Client Interface Development	3
CIS 626	Web Services Development	3
CIS 627	Web Database Services Development	3
CIS 629	Mobile Development	3
CIS Special Topic		3
Total Credits		**15**

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Course Sequence

Course	Title	Credits
First Year		
First Semester		
CIS 621	Client Interface Development	3
CIS 627	Web Database Services Development	3
	Credits	**6**
Second Semester		
CIS 629	Mobile Development	3
CIS 626	Web Services Development	3
	Credits	**6**
Third Semester		
Select one of the following:		3
CIS 67X		
	Credits	**3**
	Total Credits	**15**

Faculty

Program Director: Yang Wang, Ph.D.
Associate: Blum, Highley, Redmond, Wang
Assistant: Yin
Lecturer: Casey, McCoey, McGinley, Monaghan

Program Contact Information

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Staff Contact Information

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