Computer Information Systems, M.S.

Program Description

The Master of Science in Computer Information Systems is designed to give students the analytic and technical skills necessary to solve problems using computer information systems. Students learn to design, build, and maintain complex systems utilizing current and evolving technologies. The applied nature of the Computer Information Systems program gives students the implementation experience and confidence to play a leadership role in developing future systems for business, gaming, government, and industry. Students also have the opportunity to work with faculty on individual projects and research.

Prerequisites

In addition to the University's admission requirements:

- Baccalaureate degree in Computer Science or Information Technology.
- Data Structure, Computer Systems, Algorithm Analysis, Computer Security, Discrete Math, Calculus, proficiency in Java, Python, C++ or an equivalent.

Degree Requirements

- 30 Credits

Required Courses 15

CPS 5100	COMPUTER INFORMATION SYSTEM	3
CPS 5301	ADVANCED SOFTWARE ENGINEERING	3
CPS 5440	ADVANCED ANALYSIS ALGORITHMS	3
CPS 5740	DATABASE SYSTEMS	3
CPS 5981	SOFTWARE ASSURANCE	3

Electives (choose 4) 12

CPS 5498	DIGITAL FORENSICS AND INVESTIGATION	3
CPS 5500	WEB DESIGN AND DEVELOPMENT	3
CPS 5601	HUMAN-COMPUTER INTERACTION	3

CPS 5721	KNOWLEDGE DISCOVERY AND DATA MINING	3
CPS 5745	INTERACTIVE INFORMATION VISUALIZATION	3
CPS 5801	ADVANCED ARTIFICIAL INTELLIGENCE	3
CPS 5802	MACHINE LEARNING INNOVATIONS	3
CPS 5881	INDEPENDENT STUDY IN COMPUTER INFORMATION SYSTEMS	3
CPS 5882	INDEPENDENT GRADUATE STUDY IN COMPUTER SCIENCE	3
CPS 5900	NUMERICAL ANALYSIS	3
CPS 5910	COMPUTER SIMULATION OF MODELS	3
CPS 5930	OPERATING SYSTEM CONCEPTS	3
CPS 5931	NETWORK SYSTEMS	3
CPS5960	OPERATIONS RESEARCH	3
CPS 5965	HIGH PERFORMANCE COMPUTING	3
CPS 5990	SPECIAL TOPICS IN COMPUTER SCIENCE	3

Required Capstone Course 3

CPS 5995	GRADUATE CAPSTONE	3

Greetings and welcome to the Master's Program in Computer Information Systems(CIS) at Wenzhou Kean University

This master's program will prepare you for prosperous careers in the digital world, giving you the analytic and technical skills to design, build, and maintain complex information systems. You will gain experience, expertise, and confidence to become information technology leaders and ultimately work in the fields of gaming, business, government, banking, industry, and more.

The coursework in this program combines both the foundations of computer science with the applied and in-demand skills. Required courses include Computer Information systems, Software Engineering, Analysis of Algorithms and Systems, Advanced Databases, and many elective courses to keep up with the fast-paced world of technology such as Artificial Intelligence, Big Data, Machine Learning, and Deep Learning.