

# Enterprise Systems Development Graduate Certificate

- Apply software security standards in business applications
- Communicate effectively with information systems users

The Graduate Certificate in Enterprise Systems Development is designed to help students from all backgrounds achieve competence in the development and management of web-based or legacy information systems including the interface with contemporary programming languages, frameworks, platforms, testing methodologies, and security standards.

This 12 credit hour certificate program also counts toward the 30 credit hour Master of Science in Information Systems and Technology degree program requirements. Students may choose to combine this certificate with other courses and/or certificates to obtain the Master of Science in Information Systems and Technology degree.

## Admission Requirements

Applicants must meet general University of Missouri-St. Louis Graduate School admissions requirements.

## Certificate Requirements

All course prerequisites and all course waivers are applicable. Substitute courses may be approved by the appropriate department chairperson and the Director of Graduate Business Programs.

INFSYS 6806	Managerial Applications of Object-Oriented Technologies	3
or INFSYS 6808	Advanced Object-Oriented Programming for Business	

### Electives

Choose one of the following sequences: 6

INFSYS 6807 & INFSYS 6817	Contemporary z/OS COBOL and Advanced COBOL and Modern z/OS System Tools	
INFSYS 6814 & INFSYS 6815	Web Applications for Business and Advanced Web Applications for Business	

Choose one of the following: 3

INFSYS 6818	Management of Software Testing	
INFSYS 6847	Project Management	
INFSYS 6868	Software Assurance	

**Total Hours** 12

The required courses may be substituted with other courses with the approval of the Chair of the Information Systems and Technology Department.

## Learning Outcomes

Upon completion of the program, certificate earners will be able to:

- Develop business information systems
- Exhibit specialized technical expertise
- Apply software testing methodologies to ensure high quality business applications