

MISSOURI WESTERN STATE UNIVERSITY

SCHOOL OF LIBERAL ARTS AND SCIENCES

DEPARTMENT OF COMPUTER SCIENCE, MATHEMATICS, AND PHYSICS
Undergraduate Studies Program

COURSE NUMBER: ACT 476
COURSE NAME: APPLICATIONS OF CIS/ACT CAPSTONE

COURSE DESCRIPTION:

The capstone course will encompass and consolidate all of the concepts covered in the ACT curriculum. In this course, students will manage an Information Systems project, design an appropriate database and incorporate both LAN and Web-based distributed information solutions to support a business process, effectively document the system and incorporate elements of the general education into a successfully implemented information systems solution. This class is the final course in a two semester capstone experience.

PREREQUISITE:

A grade of C or higher in CSC 400, or permission from instructor

TEXTBOOK

Systems Analysis+Design in Changing, Satzinger, Edition 7th 16, Cengage L,
ISBN 9781305117204

CAPSTONE PROJECT OBJECTIVES:

1. To enhance and facilitate understanding of project development requirements.
2. To set guidelines and time constraints for the project deliverables to facilitate timely completion.
3. To enhance the quality of your senior project by providing you with information about research/design tools and technologies
4. To provide feedback regarding your topic, project proposal and final report.
5. To gain experience monitoring and facilitating completion of a software or hardware installation project.

Capstone Project OUTLINE:

Semester I

1. Project description (Clearly defined Request for Services)
2. Use Case development through level III
3. Schedule and format of required and suggested activities
4. Constraint documentation
5. Work Breakdown Schedule
6. Inventory of personnel, hardware, software and all tools used to develop your project.
7. Highly developed Prototype of system

Semester II

1. Organize project team (select any additional needed personnel)
2. Review WBS for time constraints, notify faculty of any constraints that will extend project beyond May 1.
3. Code project, install hardware
4. Meet with sponsor for design review before testing
5. Testing phase
6. Meet with sponsor after testing phase
7. Presentation and software demo

Project Description

The nature of the project is contingent on the career goals of the individual. It represents the synthesis of course work, experience, and applied research and study in the field of information technology. Since creativity is involved in the project, more specific description and/or guidelines than the following may hamper the creative nature associated with each activity. It is generally expected that a project will show the strengths of the student's education in his/her degree program.

The entire project counts for six credit hours. The first 3 credits involved completion of preliminary documentation and use case. This course includes the development phase and handoff phase of the project development cycle. A student whose project is extensive many elect to complete the development phase through the summer term. No project will be allowed to extend beyond the summer term of the current academic year.