

## **CIT 290—Information Systems Design and Implementation (3)**

### Course Description

Students learn strategies used in a comprehensive system development project, including how to use structured analysis and design techniques in information systems and how to apply computer programming and system development concepts. Emphasis is placed on project implementation, documentation, installation, testing, presentation, and training in a project team environment. Lecture: 3 hours. Prerequisites: CIT 170 and CIT 220 and a Level I Programming Language; or consent of instructor.

### Course Competencies

### Course Outline

- I. Overview of Systems Development Process
  - A. Preliminary Investigation
  - B. Systems Analysis
  - C. Systems Design
  - D. Implementation
  - E. Maintenance
- II. Project Management Tools and Techniques
  - A. PERT Charts
  - B. Gantt Charts
- III. Fact Finding Techniques
  - A. Interviews
  - B. Questionnaires
  - C. Sampling Techniques
- IV. Analysis Considerations
  - A. Management Perspective
  - B. User Perspective
- V. Feasibility Test and Cost-Benefit Analysis
  - A. Operational Feasibility Criteria
  - B. Technical Feasibility Criteria
  - C. Economic Feasibility Criteria
  - D. Cost-Benefit Analysis Techniques
- VI. Implementing the New Information System
  - A. Conversion
  - B. User Training
  - C. Management Presentation
  - D. Evaluating the New System