A. Course Description

Credits: 4

Prerequisites: MIS 310 Principles of Management Information Systems

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This course presents approaches and methods for the analysis and design of IT applications. It also covers different methods for creating graphical models of IT project requirements. System development life cycle (SDLC) and alternate development approaches to information systems development are examined in detail. The course provides students with critical tools and representations (both traditional and object-oriented) for eliciting and documenting user requirements and for developing effective applications that meet organizational technology needs. Students work individually and in teams on assignments and projects. The roles of open source software, component based development and service oriented architecture in systems development are also examined.


C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Knows the approaches and methods for the analysis and design of IT applications.
2. Knows how to utilize and create graphical models of IT project requirements.
3. Knows the different roles directly involved in the SDLC (Project Manager, Analyst, Architect, Developer, and Tester).
4. Understands and can utilize the critical tools and representations (both traditional and object-oriented) for eliciting and documenting user requirements and for developing effective applications that meet organizational technology needs.
5. Understands introductory aspects of project planning, project schedule, and project budget.
6. Understands the detailed concepts of the System development life cycle (SDLC) and alternate development approaches to information systems development.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

None