

Master Syllabus

CIS 1140 - Information Systems Analysis & Design

Division: Business and Public Services

Department: Computer Information Systems

Credit Hour Total: 3.0

Lecture Hrs: 3.0

Prerequisite(s): CIS 1111 OR GEO 1107

Date Revised: July 2014

Course Description:

Introduction to the systems development life cycle and the four-phase model (planning, analysis, design and implementation). Emphasis on requirements gathering, methodology, modeling and skills related to specifications, design and documentation. Discussion of business processes, law, legal issues and ethics for IT professionals.

General Education Outcomes:

- Oral Communication Competency
- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency

Course Outcomes:

Project Team Skills and Roles

Work as part of a team to complete and present an information systems project assignment.

Assessment Method: Performance appraisals

Performance Criteria:

70% or higher on a standard rubric

Technical Documentation

Create and implement systems documentation including project plans, process models, data models, structure charts, test plans and user interface designs.

Assessment Method: Performance appraisals

Performance Criteria:

70% or higher on a standard rubric

Information Systems Theory and Methodologies

Describe the need for an Information Systems methodology, and identify and define the phases of the life cycle approach. Explain the purpose and content of each phase.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher on exams

IT Professional Issues

Describe business processes and issues for IT professionals including intellectual law, contracts, regulatory issues, legal, ethical, and professional behavior.

Assessment Method: Locally developed exams

Performance Criteria:

70% or higher on exam

Outline:

Information systems theory

Systems development methodologies and phases

Project team skills and roles

Project management

Business processes, law and legal issues

Professional practices and ethics

Technical documentation

Ethical behaviors