

## 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

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### 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
- ❑ Critical Thinking/Problem Solving
- ❑ Values/Citizenship/Community

### 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