Administrative Unit: Computer and Mathematical Sciences Department

Course Prefix and Number: CISS 325

Course Title: Systems Analysis, Design, and Implementation Projects

Number of: Credit Hours: 3  Lecture Hours: 3  Laboratory Hours: 0

Catalog Description: The systems analysis and design topics introduced in CISS 285 will be applied to create one or more operational computer information systems. Prerequisite: CISS 285 (or CISS 280) with at least a grade of C. Offered Spring.

Prerequisite(s)/Corequisite(s): CISS 285 (or CISS 280) with at least a grade of C.

Text(s): Most current editions of the following:


Course Objectives:

• To plan, analyze, design, and implement a computer information systems project.
• To explore detailed design and implementation issues of concepts introduced in CISS 285 (or CISS 280).

Measurable Learning Outcomes:

• Create system proposals.
• Conduct a project feasibility analysis.
• Create a master project repository.
• Create a complete entity relationship diagram for a project.
• Create a complete data flow diagram for a project.
• Create and test input and output screen designs and associated user interface for a project.
• Create and test a project’s underlying data repository.
• Write and test a project’s computer programs.
• Create and test a project’s underlying network infrastructure.
• Collaborate with a team on a project.
• Write project reports and present them orally.
• Maintain a healthy working relationship with a designated customer.

Topical Outline (major areas of coverage):

• Planning and analysis of the information system project.
• Construction, implementation, and testing of the information system project’s user interfaces.
• Construction, implementation, and testing of the information system project’s output screens, reports, and forms.
• Construction, implementation, and testing of the information system project’s databases and files.
• Construction, implementation, and testing of the information system project’s network infrastructure.

Recommended maximum class size for this course: 30

Library Resources: Online databases are available at http://www.ccis.edu/offices/library/resources.asp. You may access them from off-campus using your eServices login and password when prompted.

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Date: February 11, 2005

NOTE: The intention of the master syllabus is to provide an outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught or where it is taught. Faculty members teaching this course for Columbia College are expected to facilitate learning pursuant to the course objectives and cover the subjects listed in the topical outline. However, instructors are also encouraged to cover additional topics of interest so long as those topics are relevant to the course’s subject. The master syllabus is, therefore, prescriptive in nature but also allows for a diversity of individual approaches to course material.

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