Department of Mathematics, Computer Science and Information Systems

A. Protocol

Course Name: Systems Analysis II
Course Number: CIS490
Credits: 3
Prerequisite: CIS 322 Data Base Application Development with C- or better
Prerequisite/Co-requisite: CIS 354 Systems Project Management

Maximum Class Size (face-to-face): 22
Maximum Class Size (online): 35
*Justification for online class size is due to the highly-technical nature of the course.

B. Objectives of the Course

Upon completion of this course the student will be able to:

a) Evaluate various software development life cycle models;
b) Analyze current organizational situations/needs to determine where technological solutions can resolve problems;
c) Design application system solutions to meet the needs identified and document the design in requirements, specifications and design documents;
d) Apply teamwork skills.

C. Catalog Description

This course introduces students to systems application development. They will study its history and terminology. The students will write requirements, specifications and design documents and one or more papers on software development life cycles. Prerequisite: CIS 322 Data Base Application Development with a C- or better; prerequisite/co-requisite: CIS 354 Systems Project Management. Three credits.

D. Outline of the Course

1) Write a requirements document
2) Write a specification document
3) Write a design document
4) Discuss various software life-cycle models
5) Write and present to the class a paper on the software development life cycle
6) Apply project planning and teamwork skills
7) Explain the need for lifelong learning in the profession

E. Teaching Methodology

1) Traditional Classroom Methodology

This course will be taught using the lecture/discussion method and cooperative group method during appropriate sections of the course.

2) Online Methodology

This course will be taught using a variety of methods including lecture videos, activities, group collaborative learning, and discussion boards.
Quality Matters™ Statement – The online course follows the standards of the Quality Matters™ rubric. An online homework system is required in this course.

F. Text

A vast array of texts from a variety of publishers is available to teach this course. Some of these include:


G. Assessment Activities

1) Traditional Classroom Assessment

Various assessment methods are used, at the discretion of the instructor, and can include exams, quizzes, tutorials, homework assignments, programs/projects/labs. An online homework submission system is used in this course.

2) Online Assessment

Various assessment methods are used, at the discretion of the instructor, and can include exams, quizzes, homework assignments, wikis, online journals and projects. An online homework system is required in this course.

H. Accommodations for Students with Disabilities

OSD
Revised December 2012

STUDENTS WITH DISABILITIES

Students with disabilities:

- Reserve the right to decide when to self-identify and when to request accommodations.
- Will register with the Office for Students with Disabilities (OSD) each semester to receive accommodations.
- Might be required to communicate with faculty for accommodations, which specifically involve the faculty.
- Will present the OSD Accommodation Approval Notice to faculty when requesting accommodations that involve the faculty.

Office for Students with Disabilities
Requests for approval for reasonable accommodations should be directed to the Office for Students with Disabilities (OSD). Approved accommodations will be recorded on the OSD Accommodation Approval notice and provided to the student. Students are expected to adhere to OSD procedures for self-identifying, providing documentation and requesting accommodations in a timely manner.

Contact Information:

- Location: Azorsky Building – Room 105
- Phone: (724) 938-5781
- Fax: (724) 938-4599
- Email: osdmail@calu.edu
- Web Site: www.calu.edu (search “disability”)

I. Supportive Instructional Materials, e.g. library materials, Web sites, etc.

Library Materials:
Books located in the PILOT catalogs, library databases (Ebscohost, CIOS, Proquest, Lexis-Nexis) which include books, journals, magazines, and newspapers. Examples of holdings at the Louis L. Manderino Library are:


Additional Information for Course Proposals

J. Proposed Instructors: Dr. Gina Boff, Dr. Gary DeLorenzo, Dr. Lisa Kovalchick, Dr. Tony Rodi or any other tenure-track CIS faculty from the Department of Mathematics, Computer Science and Information Systems.

K. Rationale for Course: Course already exists and being updated for Global Online delivery.

L. Specialized Equipment or Supplies Needed: None

M. Answer the following questions using complete sentences:

1. Does the course require additional human resources? No, the course is already being taught.

2. Does the course require additional physical resources? No. The current physical resources on campus can accommodate the teaching of this course.

3. Does the course change the requirements in any particular major? No.

4. Does the course replace an existing course? No, this course does not replace any existing courses.

5. How often will the course be taught? This course will be taught once every year.

6. Does the course duplicate an existing course in another Department or College? No.

7. What is the recommended maximum class size for this course? Recommended class size for this course is 35 for online sections, due to the highly-technical nature of the course.

N. If the proposed course includes substantial material that is traditionally taught in another discipline, you must request a statement of support from the department chair that houses that discipline. This course does not include substantial material from another discipline.

O. Please identify if you are proposing to have this course considered as a menu course for General Education. If yes, justify and demonstrate the reasons based on the categories for General Education. The General Education Committee must consider and approve the course proposal before consideration by the UCC. No; this course will not be offered on the GenEd menu.