A. Protocol

Course Name: Introduction to Information Systems
Course Number: CIS110
Credits: 3
Prerequisites: None

Maximum Class Size (face-to-face): 35
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. Describe the concept of a “system”, its components, both technological and otherwise.
b. Describe the concept of an information system and the ways in which they improve the ability to make decisions in an organization, thereby allowing a company to gain competitive advantage.
c. Describe the various methodologies employed in computer information systems development.
d. Argue ethical rationales in employing information systems in a global economy, along with potential legal implications.

C. Catalog Description:
This course is an introductory study of information systems. Major topics include: the role and value of information systems, hardware and software used in information systems, managing information and data resources, decision making and developing information systems.
Prerequisites: None. Three credits.

D. Outline of the Course:
1). The Role of Information Systems in an organization
   a. The concept of an Information System
   b. The role of Information Systems in an organization
   c. The value of Information Systems in an organization
   d. Using Information Systems to gain Competitive Advantage
2). How Strategic Information Systems have transformed
   a. Organizations
   b. Products
   c. Services
   d. Marketing strategies
   e. Relationships with customers
   f. Relationships with suppliers
   g. Internal operations
3). The tools of information technology
   a. Information technology hardware
   b. Information technology software
   c. Information technology networking
   d. Internets Intranets and Extranets
4). Managing information and data resources
a. How information can be organized in files and databases
b. File management techniques used to organize, access and utilize information in a computer system
c. The components of a database system
d. Three database models
e. Data Warehousing
5). Using information systems in decision making
   a. How information systems support management decision making
   b. Information design to support decision making
   c. Decision support systems (DSS)
6). The ethical and social impact of information systems
   a. The ethical dimensions of information systems
   b. Ethical and social problems created by the widespread use of information systems
   c. The issues of information rights (including privacy)
   d. Issues related to intellectual property rights
   e. Issues related to accountability
   f. Issues related to accountability
   g. Issues related to liability
   h. Issues related to systems quality
   i. Issues related to the quality of life
7). Developing information systems
   a. Traditional system life cycle
   b. Prototyping
   c. Developing systems with application software packages
   d. End-user development
   e. Outsourcing Information systems

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.


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. This course is already offered on the GenEd menu.