California University of Pennsylvania
Guidelines for New Course Proposals
University Course Syllabus
Approved: 02/03/16

Department of Mathematics, Computer Science & Information Systems

A. Protocol

Course Name: Concepts in Enterprise Resource Planning
Course Number: CIS 401
Credits: 3
Prerequisites: BUS 100: Introduction to Business, CIS 299: Systems Analysis I and
3 credits in ACC or FIN; all with a C- or better.

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:

1) Identify the basic functional areas in a business and their related strengths and weaknesses in both the business processes and the formal information system being employed.
2) Relate functional areas to common ERP vendor supplied software modules.
3) Assess existing functional boundaries and identify areas for improvement through business process reengineering (BPR)
   a) The blending of the business process best practice with the formal information system
   b) The integration of the information systems into an enterprise wide system.
4) Critically analyze ERP design options from the point of functional area system efficiency and integration from the transaction processing level up through the ERP decision support capabilities to a measure of improved impact on the information delivered for strategic decision

C. Catalog Description:

This course will provide students an overview of the fundamental business processes/systems used to run organizations and how the increase in their system integration adds value, improves productivity and increases growth. The basic functional areas of business and their related information systems are reviewed with emphasis on identifying opportunities for business process reengineering. ERP software, the latest trends and industry best practices in ERP implementations will be discussed. Prerequisites: BUS 100 Introduction to Business, CIS 299 Systems Analysis I and 3 credits in ACC or FIN; all with a C- or better. Three credits.

D. Outline of the Course:

1) A foundation for understanding Enterprise Resource Planning Systems
   a. Functional business areas
b. Business processes (both formal and informal)
c. Formal business process information systems

2) BPR: Business Process Reengineering for Enterprise Resource Planning
   a. “As Is” Analysis
   b. “To Be” Design
   c. Planning
   d. Implementation methodologies and strategies currently employed

3) ERP Sales and Marketing
4) ERP Accounting and Finance
5) ERP Production and Materials Management
6) ERP Human Resources
7) Supply chain management and the eMarketplace
8) Managing an ERP Project

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
Following are some text options for this course:


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:**

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<th>STUDENTS WITH DISABILITIES</th>
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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](http://www.calu.edu) (search “disability”)

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

**Library Materials:**

Books located in the PILOT catalogs and various electronic library databases, which include books, journals, magazines and newspapers. Examples of holdings at the Louis L. Manderino Library are:


**Internet Access:**
Of particular use to this course, for current events and developments, are various web sites, such as:


ACM Portal: A huge digital collection of computing resources.
Information for Course Proposals

J. Proposed Instructors: Dr. Gina Boff, Dr. Gary DeLorenzo, Dr. Lisa Kovalchick 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.