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

Department of Mathematics, Computer Science and Information Systems

A. Protocol

Course Name: Global, Economic and Social Ethical Issues in Computing
Course Number: CIS 352
Credits: 3
Prerequisite: 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:
CIS 352 provides the student with the understanding that their behavior, through their interaction with technology, has an impact on ethical decisions. Upon successful completion of this course, the student will be able to:

a. Identify and assess the issues and controversies comprising the field of ethics in computing.
b. Identify and assess the impact of ethics across global, economic and social boundaries in computing.
c. Critically analyze the impact of ethics among groups such as companies and individuals in the computing area.
d. Critically analyze goals, values, and conflicts presented in ethically challenging situations.
e. Produce a quality writing that addresses the above – Ethics Essay.

C. Catalog Description:
This course covers issues related to various global, economic and social frameworks and moves to topics specifically related to computers. Emphasis is placed on the study of ethical situations that arise as a consequence of the development and deployment of computers and related technologies, and also from parties with malicious intents toward prevalent technologies. Examples will be used to facilitate discussions in areas such as: security, economics of information systems, computer crime and hacking, computer software ownership, privacy, risks of computing, professional liability, Internet freedom in computing and international laws and governance. Prerequisite: None. Three credits.

D. Outline of the Course:
I. Introduction to Computing Ethics
   A. Ethics framework
   B. Impact of ethics in computing

II. Professional Ethics
   A. Define the role of a computer professional
   B. Explore the Professional Code of Ethics
   C. Analyze areas of conflict for computer professionals related to the Professional Code of Ethics

III. Privacy
   A. Define privacy in computing
   B. Identify and assess privacy issues
C. Analyze the gathering and use of data related to privacy
D. Identify and analyze protection problems associated with privacy

IV. Security
A. Define security in computing
B. Identify and assess security issues, such as Internet cybercrime
C. Analyze the gathering and use of data related to security
D. Identify and analyze protection problems associated with security

VI. Intellectual Property
A. Define intellectual property
B. Understand copyright laws, patents and trademarks
C. Analyze the impact of intellectual property related to software ownership

VII. Accountability: (i.e. liability and reliability would identify and analyze various social issues related to computing ethics)
A. Cultural impact on a society based on norms and values
B. Domestic versus global impact based on norms and values
C. Economic decision-making for profitability gain

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:


Reynolds, George, Ethics in Information Technology, 3rd ed., Thomson/Course Technology, 2010

Reynolds, George, Ethics in Information Technology, Thomson/Course Technology, 2003


Johnson, Deborah G., Computers, Ethics and Social Values, Prentice Hall, 1995

Spinello, Richard, Ethical Aspects of Information Technology, Prentice Hall, 1995


Tavani, Herman T., Ethics and Technology, Wiley, 2004
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:


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

- News and Current Events  [http://www.library.cup.edu/ref-news.html](http://www.library.cup.edu/ref-news.html)
- General (news)  [http://voyager.ship.edu/remote/validate.cgi?db=LEXIS](http://voyager.ship.edu/remote/validate.cgi?db=LEXIS)
- Copyright and Fair Use  [http://www.library.cup.edu/copyright.html](http://www.library.cup.edu/copyright.html)
- Association for Information Systems  [http://cyberethics.cbi.msstate.edu/](http://cyberethics.cbi.msstate.edu/)
- Electronic Frontier Foundation  [http://www.eff.com/](http://www.eff.com/)
- 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.
Additional Information for Course Proposals

A. 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

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

C. Specialized Equipment or Supplies Needed: None

D. Answer the following questions using complete sentences:

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

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

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

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

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

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

14. 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.

E. 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.

F. 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.