California State University Channel Islands

NEW COURSE PROPOSAL

Courses must be submitted by November 2, 2009, for priority catalog review.

DATE (*Change if modified and redate file with current date)*) 8-18-2010; 11.9.10
PROGRAM AREA(S) HEALTH SCIENCE

1. Course Information. *[Follow accepted catalog format.]*

Prefix(es) (Add additional prefixes if cross-listed) **and Course No. HLTH 302**
Title: INTRODUCTION TO HEALTH CARE INFORMATICS Units: 3
x Prerequisites HLTH 100 and 101
Corequisites
Consent of Instructor Required for Enrollment
Catalog Description (Do not use any symbols): Introduces basic knowledge of health informatics, including data acquisition and management, vocabularies, standards, tools, major technologies, and applications of informatics such as clinical databases, billing, electronic patient records, lab tests, and electronic prescriptions, as applied in support of health care delivery.

Grading Scheme:
x A-F Grades
Credit/No Credit
Optional (Student Choice)

Repeatability:
Repeatable for a maximum of units
Total Completions Allowed
Multiple Enrollment in Same Semester

Course Level Information:
x Undergraduate
Post-Baccalaureate/Credential
Graduate

Mode of Instruction/Components (*Hours per Unit are defaulted*).

	Units	Hours per Unit	Benchmark Enrollment	Graded Component	CS & HEGIS # (Filled in by the Dean)
Lecture	3	1	30	x	
Seminar		1			
Laboratory		3			
Activity		2			
Field Studies					
Indep Study					
Other Blank					

Leave the following hours per week areas blank. The hours per week will be filled out for you.
3 hours lecture per week
hours blank per week

2. Course Attributes:

General Education Categories: All courses with GE category notations (including deletions) must be submitted to the GE website: http://summit.csuci.edu/geapproval. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.

A (English Language, Communication, Critical Thinking)
A-1 Oral Communication
A-2 English Writing
A-3 Critical Thinking

B (Mathematics, Sciences & Technology)
B-1 Physical Sciences
B-2 Life Sciences – Biology
B-3 Mathematics – Mathematics and Applications
B-4 Computers and Information Technology

C (Fine Arts, Literature, Languages & Cultures)
C-1 Art

C-2 Literature Courses
C-3a Language
C-3b Multicultural
D (Social Perspectives)
E (Human Psychological and Physiological Perspectives)
UDIGE/INTD Interdisciplinary
Meets University Writing Requirement
Meets University Language Requirement

American Institutions, Title V Section 40404: Government US Constitution US History
Refer to website, Exec Order 405, for more information: http://senate.csuci.edu/comm/curriculum/resources.htm
Service Learning Course (Approval from the Center for Community Engagement must be received before you can request this course attribute).

3. **Justification and Requirements for the Course.** (Make a brief statement to justify the need for the course)
A. Justification: This is a required course for the BS in Health Science major. With the rapid advancement of technology utilized in the health care industry, students are required to understand the role of computer-based information and communication systems in the health care industry and public health organizations.

B. Degree Requirement: x Requirement for the Major/Minor
Elective for the Major/Minor
Free Elective

Note: Submit Program Modification if this course changes your program.

4. **Learning Objectives.** (*List in numerical order. You may wish to use the following resource in utilizing measurable verbs: http://senate.csuci.edu/comm/curriculum/resources.htm*)
Upon completion of the course, the student will be able to:
Describe the role of information technology in the health care industry;
Describe the standards, tools, technologies, and the infrastructure of the information systems utilized in the health care industry;
Apply several information technologies commonly used in the health care systems.

5. **Course Content in Outline Form.** *[Be as brief as possible, but use as much space as necessary]*
The computer meets medicine and biology
General introduction of computer system: hardware and software
Computer networks and wireless networking
Biomedical data: their acquisition, storage, security, and use
Hospital information systems
Standards in biomedical informatics
Natural language and text processing in biomedicine
Ethics in health informatics
Management of information in healthcare organizations
Consumer health informatics and telemedicine
Public health informatics and the health information infrastructure
Patient-care and monitoring systems
Electronic medical record
CPOE (computerized provider order entry)
Clinical decision-support systems
Email, Internet and medicine
HIPAA
Multimedia in medicine
Imaging and structural informatics
Handheld computing
Implanted biochips
Artificial intelligence and robotics
Bioinformatics

Does this course content overlap with a course offered in your academic program? **Yes** **No** x
If YES, what course(s) and provide a justification of the overlap.

Does this course content overlap a course offered in another academic area? **Yes** **No** x
If YES, what course(s) and provide a justification of the overlap.

Overlapping courses require Chairs' signatures.

6. Cross-listed Courses (*Please note each prefix in item No. 1)*

A. List Cross-listed Courses (Signature of Academic Chair(s) of the other academic area(s) is required).
List each cross-listed prefix for the course:

B. Program responsible for staffing: Health Science

7. References. *[Provide 3 - 5 references]*

Healthcare Informatics by C. William Hanson. Publisher: McGraw-Hill Professional; 1 edition (December 9, 2005), ISBN-10: 0071440666

Biomedical Informatics: Computer Applications in Health Care and Biomedicine (Health Informatics). Edward H. Shortliffe (Editor), James J. Cimino (Editor) Publisher: Springer; 3rd edition (May 25, 2006), ISBN-10: 0387289860

Health Care Information Systems: A Practical Approach for Health Care Management [Kindle Edition]. Frances Wickham Lee (Author) Publisher: Wiley Publishing; 2 edition (June 24, 2009)

8. Tenure Track Faculty Qualified to Teach This Course.

Health Science faculty

9. Requested Effective Date:
First semester offered: F2013

10. New Resources Requested. Yes x **No**
If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)
X Health-related computer software, health software will be needed, as indicated on the long form.

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)
X Health journals and books will be needed, as indicated in the long-form

C. Facility/Space/Transportation Needs

D. Lab Fee Requested (please refer to Dean's Office for additional processing) **Yes** **No** x

E. Other

11. Will this new course alter any degree, credential, certificate, or minor in your program? Yes **No** x

If, YES attach a program update or program modification form for all programs affected.
Priority deadline for New Minors and Programs: October 5, 2009 of preceding year.
Priority deadline for Course Proposals and Modifications: November 2, 2009, of preceding year.
Last day to submit forms to be considered during the current academic year: April 15th.

Ching-Hua Wang	8-18-2010
Proposer of Course (Type in name. Signatures will be collected after Curriculum approval)	Date

Approval Sheet

Program/Course:
If your course has a General Education Component or involves Center affiliation, the Center will also sign off during the approval process.

Multiple Chair fields are available for cross-listed courses.

Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
Program Chair		
	Signature	Date
General Education Chair		
	Signature	Date
Center for International Affairs Director		
	Signature	Date
Center for Integrative Studies Director		
	Signature	Date
Center for Multicultural Engagement Director		
	Signature	Date
Center for Civic Engagement Director		
	Signature	Date
Curriculum Chair		
	Signature	Date
Dean of Faculty		
	Signature	Date