California State University Channel Islands

NEW COURSE PROPOSAL

Courses must be submitted by October 15, 2013, and finalized by the end of that fall semester for the next catalog production.

Use YELLOWED areas to enter data.

DATE (Change if modified and redate file with current date))
PROGRAM AREA(S)

10/3/13; REV 10.8.13

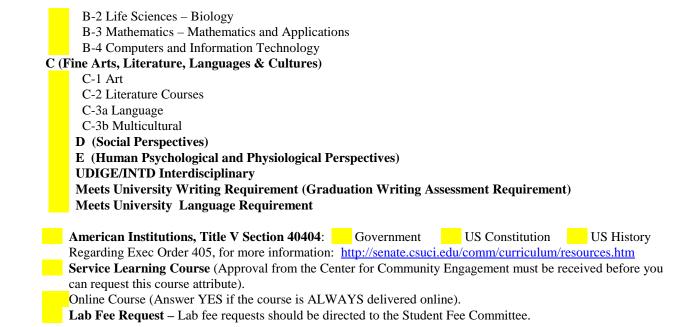
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

PK	OGRAM AREA(S)		COMPUTER S	CIENCE AND INFO	RMATION TECHNOLOGY				
1.	Course Information. [Follow accepted catalog format.] Prefix(es) (Add additional prefixes if cross-listed) and Course No. IT 428 Title: COMPUTER NETWORKS FOR HEALTH INFORMATICS Units: 3 X Prerequisites IT 152 Corequisites Consent of Instructor Required for Enrollment Catalog Description (Do not use any symbols): Basic software design and analysis considerations in networking computers into coherent, cooperating systems for health-related applications. Issues of privacy and security will be emphasized.								
	Grading Scheme:	Repeatability:		Cours	e Level Information:				
	X A-F Grades		for a maximum of		lergraduate				
		units							
	Credit/No Credit	Total Completion			Post-Baccalaureate/Credential				
	Optional (Student Choice)	Multiple Enrollment in Same Sem		nester Graduate					
	Mode of Instruction/Componen	ts (Hours per Unit d	are defaulted).						
		Hours	Default	Graded	CS & HEGIS #				
	Units	per Unit	Section Size	Component	(Filled in by the Provost's Office)				
	Lecture 3	1	24	у					
	Seminar	1							
	Laboratory	3							
	Activity Field	2	 _						
	Studies								
	Indep Study								
	Other Blank								
	Leave the following hours per we 3 hours lecture per week hours blank per week Is this course always delivered or		-	·					
2.	Course Attributes:								
	General Education Catego http://summit.csuci.edu/geappi for further processing. A (English Language, Communication A-1 Oral Communication A-2 English Writing A-3 Critical Thinking	oval. Upon complet	ion, the GE Committee		ons) must be submitted to the GE documents to the Curriculum Com				

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B (Mathematics, Sciences & Technology)

B-1 Physical Sciences



- 3. Justification and Requirements for the Course. (Make a brief statement to justify the need for the course)
 - A. Justification: This course is required in the Health Informatics option within the BS in Health Science degree
 - B. Degree Requirement:

 X Requirement for the Major/Minor

 Elective for the Major/Minor

 Free Elective

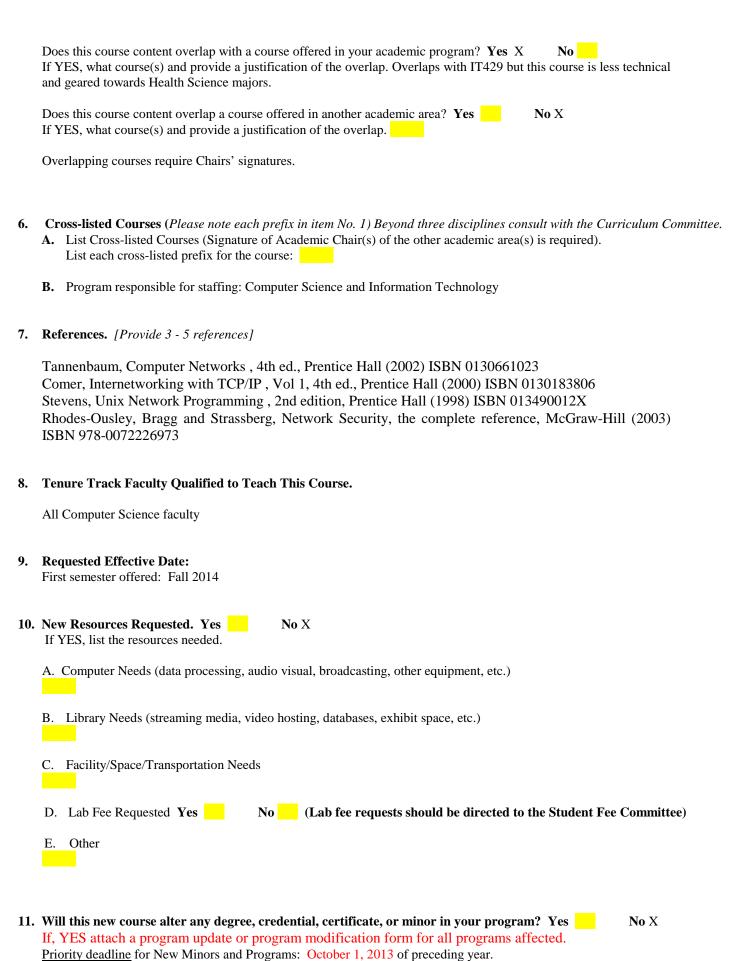
 Note: Submit Program Modification if this course changes your program.
- **4. Student Learning Outcomes.** List in numerical order. Please refer to the Curriculum Committee's "Learning Outcomes" guideline for measurable outcomes that reflect elements of Bloom's Taxonomy:

<u>http://senate.csuci.edu/comm/curriculum/resources.htm</u>. The committee recommends 4 to 8 student learning outcomes, unless governed by an external agency (e.g., Nursing).

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

- 1. Design network protocols at all but the physical layer
- 2. Implement software incorporating a variety of network protocols
- 3. Evaluate the security of a network design
- 4. Assess the compliance of a network with respect to HIPAA
- 5. Synthesize ideas clearly and convincingly in oral and written form.
- **5.** Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]
 - * Introduction -- switching schemes, network layer architecture
 - * Current Privacy requirements
 - * Application layer protocols
 - * Transport layer connectionless (UDP), reliable data
 - * Network Layer virtual circuit networks, datagram networks, routing algorithms, dynamic host configuration
 - * Wireless networks wireless multiple access algorithms,
 - * UNIX Network Programming -- client/server model,
 - * Data security encryption, attacks on networks and countermeasures

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<u>Priority deadline</u> for Course Proposals and Modifications: <u>October 15, 2013</u>, of preceding year. Last day to submit forms to be considered during the current academic year: <u>April 15th</u>.

Peter Smith	10/3/13
Proposer of Course (Type in name. Signatures will be collected after Curriculum approval)	Date

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Approval Sheet

Program/Course: IT428

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.

The CI program review process includes a report from the respective department/program on its progress toward accessibility requirement compliance. By signing below, I acknowledge the importance of incorporating accessibility in course design.

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	
AVP			
	Signature	Date	

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