CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by October 15, 2011, and finalized by the end of the fall semester to make the next catalog (2012-13) production

DATE (CHANGE DATE EACH TIME REVISED): 8/26/11 REV. 9/19/11; REV 10.11.11

PROGRAM AREA(S) : COMPUTER SCIENCE

Directions: All of sections of this form must be completed for course modifications. Use YELLOWED areas to enter data. All documents are stand alone sources of course information.

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1. Indicate Changes and Justification for Each. *[Mark all change areas that apply and follow with justification. Be as brief as possible but, use as much space as necessary.]*

- Course title
- X Prefix/suffix
- Course number
- Units
- Staffing formula and enrollment limits
- X Prerequisites/Corequisites
- Catalog description
- Mode of Instruction
- Course Content
- Course Learning Outcomes
- References
- GE
- X Other Justification
- Reactivate Course

Justification: Modifications to this course have already been approved for Fall 2012. This change just adds cross-listing, adjusts prerequisites and justification. The intent is to remove IT 420 (see separate form) and have COMP/IT 420 as the single database class.

2. Course Information.

[Follow accepted catalog format.] ***(Add additional prefixes i f cross-listed)***

OLD

Prefix COMP Course# 420
Title Database Theory and Design Units (3)
2 hours lecture per week
1 hours laboratory per week

X Prerequisites: Math 300 or Math 301 and Comp 151

Consent of Instructor Required for Enrollment
Corequisites:

Catalog Description (Do not use any symbols):
Database structure including: structure definition, data models, semantics of relations, and operation on data models. Database schemas: element definition, use and manipulation of the schema. Elements of implementation. SQL. Discussion of information retrieval, reliability, protection and integrity of databases.

General Education Categories:
Grading Scheme (Select one below):
X A – F
Credit/No Credit
Optional (Student's Choice)
Repeatable for up to units
Total Completions
Multiple Enrollment in Same Semester Y/N
Course Level:
X Undergraduate
Post-Baccalaureate
Graduate

NEW

Prefix COMP/IT Course# 420
Title Database Theory and Design Units (3)
2 hours lecture per week
3 hours laboratory per week

X Prerequisites: Math 300 or Math 301 and Comp 151 or IT151

Consent of Instructor Required for Enrollment
Corequisites:

Catalog Description (Do not use any symbols)**:**
Database structure including: structure definition, data models, semantics of relations, and operation on data models. Database schemas: element definition, use and manipulation of the schema. Elements of implementation. SQL. Discussion of information retrieval, reliability, protection and integrity of databases

General Education Categories:
Grading Scheme (Select one below):
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Credit/No Credit
Optional (Student's Choice)
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Total Completions
Multiple Enrollment in Same Semester Y/N
Course Level:
X Undergraduate
Post-Baccalaureate
Graduate

3. Mode of Instruction (Hours per Unit are defaulted) **Hegis Code(s)**_____
(Provided by the Dean)

	Existing					Proposed					
	Units	Hours Per Unit	Benchmark Enrollment	Graded		Units	Hours Per Unit	Benchmark Enrollment	Graded	CS No. (filled out by Dean)	
Lecture	2	1	24	y		2	1	24	y		
Seminar		1					1				
Lab	1	3	24	y		1	3	24	y		
Activity		2					2				
Field Studies											
Indep Study											
Other blank											
Online											

4. 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).

5. Justification and Requirements for the Course. *[Make a brief statement to justify the need for the course]*

OLD	**NEW**
An elective course for the BSCS	An elective course for the BSCS and a required course for the BSIT
Requirement for the Major/Minor	X Requirement for the Major/Minor
X Elective for the Major/Minor	X Elective for the Major/Minor
Free Elective	Free Elective

Submit Program Modification if this course changes your program.

6. Student Learning Outcomes. (List in numerical order. You may wish to visit resource information at the following website: http://senate.csuci.edu/comm/curriculum/resources.htm)

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

OLD

1. Identify the components of a database system.
2. Represent information in the form of tables, records, and fields.
3. Construct table design diagrams.
4. Analyze and implement basic sql queries.
5. Integrate a database with a programming language.
6. Identify and represent system constraints.
7. Synthesize and articulate ideas clearly and convincingly in oral and written forms

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5. Integrate a database with a programming language.
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7. Synthesize and articulate ideas clearly and convincingly in oral and written forms

7. Course Content in Outline Form. (Be as brief as possible, but use as much space as necessary)

OLD

1. Components of a database system.
2. Representation of Constraints.
3. Tables, Records and Fields.
4. Integrity Constraints.
5. Entity Relation (ER) Diagrams.
6. Table Unions and Joins.

NEW

1 Components of a database system.
2. Representation of Constraints.
3. Tables, Records and Fields.
4. Integrity Constraints.
5. Entity Relation (ER) Diagrams.
6. Table Unions and Joins.

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.

8. 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).
B. List each cross-listed prefix for the course: COMP, IT
C. Program responsible for staffing: Computer Science

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

OLD Fundamentals of Database Systems, Ramez Elmasri , Addison Wesley, 2002, 0-201-74153-9
Database systems: Design, implementation and management 9th edition, Coronel. Morris and Rob, Course Technology 2009 ISBN 0538748842

NEW Fundamentals of Database Systems, Ramez Elmasri , Addison Wesley, 2002, 0-201-74153-9
Database systems: Design, implementation and management 9th edition, Coronel. Morris and Rob, Course Technology 2009 ISBN 0538748842

10. Tenure Track Faculty qualified to teach this course.
All Computer Science faculty

11. Requested Effective Date or First Semester offered: Fall 2012

12. New Resource Requested: Yes ☐ **No** X
If YES, list the resources needed.

A. Computer Needs (data processing, audio visual, broadcasting, other equipment, etc.)

B. Library Needs (streaming media, video hosting, databases, exhibit space, etc.)

C. Facility/Space/Transportation Needs:

D. Lab Fee Requested: Yes **No** **(Refer to the Dean's Office for additional processing)**

E. Other.

13. Will this course modification alter any degree, credential, certificate, or minor in your program? Yes X **No**

If, YES attach a program update or program modification form for all programs affected.
Priority deadline for New Minors and Programs: October 1, 2011 of preceding year.
Priority deadline for Course Proposals and Modifications: October 15, 2011.
Last day to submit forms to be considered during the current academic year: April 15th.

Peter Smith	9/19/11
Proposer(s) of Course Modification	Date

Type in name. Signatures will be collected after Curriculum approval.

Approval Sheet

Course: COMP 420

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 Intl Affairs Director		
	Signature	Date
Center for Integrative Studies Director		
	Signature	Date
Center for Multicultural Engagement Director		
	Signature	Date
Center for Civic Engagement and Service Learning Director		
	Signature	Date
Curriculum Chair		
	Signature	Date
AVP		
	Signature	Date