

COURSE SYLLABUS

Course Title:	Database Design I		Date submitted:	Spring 2014 (AAC: 14-28)
Department:	Business and Technology			
Curriculum:	Computer Information Systems			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	CSC*231	Prerequisites:	
	Course Type:	X	C- or better in Introduction to Computers (CSC*101) OR Database Applications (CSA*140)	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type:	G/LAS		
	E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science			
	Credit Hours:	3	Corequisites:	
	Developmental: (yes/no)	No	None	
	Lecture:	3		
	Clinical:	0		
	Lab:	0		
Studio:	0			
Contact Hours:				
	Other:	0		
	TOTAL:	3	Other Requirements:	
Class Maximum:	24	None		
Semesters Offered:	F/S			
Catalog Course Description:	Introduces students to the design, implementation, and management of database systems. A variety of database models will be presented including relational, entity-relationship and object-oriented. Topics such as normalization, Structured Query Language (SQL), distributed databases, client server systems and data warehouses will be covered. Students will have the opportunity to design and implement a small database system.			
Topical Outline: List course content in outline format.	<ol style="list-style-type: none"> 1. What is a database system? 2. The Relational Database Model 3. The Entity-Relationship Model 4. Database Normalization 5. SQL 6. Distributed Database Management Systems 7. Transaction Management and Concurrency 8. The Object-Oriented Model 9. Client/Server Systems 			

	10. Data Warehouse
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <p>COURSE:</p> <ol style="list-style-type: none"> 1. design and implement a small database system 2. modify an existing database system 3. normalize the Files in a database system <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>Computer Information Systems Associate Degree</p> <p>APPLICATIONS SOFTWARE:</p> <ol style="list-style-type: none"> 1. produce a simple database design and implement database applications using standard query language <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <ol style="list-style-type: none"> 2. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes. <p>Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p>Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p> 11. Written Communication (embedded) - Students will be prepared to develop written texts of varying lengths and styles that communicate effectively and appropriately across a variety of settings. <p>Demonstrates: Writes articulate texts using appropriate evidence and appeals as determined by the rhetorical situation.</p> <p>Does Not Demonstrate: Writes texts lacking appropriate evidence and appeals as determined by the rhetorical situation.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. Students will create tables, forms and reports to demonstrate basic skills. 2. Written examinations will test for an understanding of terminology, concepts and skills. 3. Student will complete a comprehensive project to demonstrate database design implementation and administration skills. This project will be uploaded to ePortfolio.
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: Computer Lab Desired: None</p>
<p>Textbook(s)</p>	<p>Refer to current academic year printout.</p>