

CIS164AG – Class 43961 – Spring 2009
Oracle: Data Modeling and Relational Database Design
Chandler-Gilbert Community College
Pecos Campus Building C Room C101
January 21, 2009 to March 11, 2009
Wednesday, 4:00 P.M. – 6:40 P.M.

SYLLABUS

Instructor: Phillip Jalowiec
phillip@jalowiec.org
Work Phone: (602) 953-9400
Cell Phone: (602) 621-0659
<http://employeeweb.cgc.maricopa.edu/j/al/jalowiec/cis164ag>
Page 1 of 3

Text: Beginning Database Design, Gavin Powell, November 2005, Wrox Press
ISBN: 0-7645-7490-6

Software: Toad Data Modeler/Quest Software, Adobe Acrobat Reader

COURSE DESCRIPTION

Top-down, systematic approach to developing a relational database and defining requirements as entities, attributes, and relationships. Developing an entity-relationship (ER) diagram that accurately reflects the business. Mapping the ER diagram to an initial database design. Prerequisites: CIS105 or permission of instructor.

The course is offered in a hybrid format where traditional class time will be replaced with online activities or other technology enabled assignments to be completed outside of the classroom.

COURSE COMPETENCIES

1. Describe the stages of the database development process.
2. Develop basic and complex data models.
3. Map simple and complex ER diagrams to an initial database table design.
4. State the principles of normalization.
5. Understand the principals of referential integrity.

COURSE WORK

Weekly course work includes reading, class lecture review, and activities and projects.

Tests include quizzes and a final exam.

Projects/Activities involve the hands-on application of the course material to solve problems and will involve work outside of scheduled class time.

<u>GRADING</u>	<u>Points</u>	<u>Activity</u>	<u>Grade</u>	<u>Total Points</u>
	220	Activities	A	820-1020
	220	Projects	B	730-819
	200	Final	C	640-729
	160	Quizzes	D	550-639
	120	Study Guides	F	0-549
	80	Attendance		
	20	Surveys		
	1020			

Activity performance information will available through Blackboard.

CLASS PROCEDURES

Each class consists of questions, lecture, demonstration, and hands-on lab work. The student is responsible for reading, review and additional work outside of class to complete assignments and prepare for tests.

Reading should be completed prior to the class period in which the material will be covered.

Study Guides must be completed and submitted by email to instructor before 7:00 P.M. the day before the class period in which the material will be covered.

Quizzes/Projects/Activities must be submitted by 7:00 P.M. of the day due. Late submissions are not accepted.

The **Final** will consist of questions related to assigned reading, lectures, activities and projects. If you must miss the final, you must contact the instructor before the final or you will not be eligible for a make-up final. Reasonable arrangements will be made for a substitute time and place to take a substitute final.

Attendance will be taken and is a direct part of your grade as specified above and will affect your ability to complete course work in a proper and timely manner.

Withdrawals are subject to current college policy. The instructor may initiate the withdrawal of a student from the class after two unexcused absences or two unexcused failures to submit assignments.

Recording of classes is not permitted.

Students are subject to and must comply with **college policies** found in the College Catalog and Student Handbook.

COURSE OUTLINE AND ASSIGNMENTS

WK	DATE	TOPIC(s)	READING	PTS	ASSIGNMENT	DUE
1	01/21	Introduction, Survey	Chapters 1, 2	10	Survey	In Class
		Conceptual Data Modeling	Introduction	20	Quiz 1	Online 01/27
		Entities and Attributes	Lesson 1	20	Activity 1	Email 01/30
		Relationships	Lesson 2	30	Activity 2	Email 01/30
		ER Diagram Elements				
		ER Diagram Conventions				
		Tool Introduction				
2	01/28	Entities/Attributes	Chapter 3	40	Quiz 2	Email 02/06
		DB Structure Basics	Lesson 3	30	Activity 3	Email 02/06
		Relationships: M:M, Valid	Lesson 4	40	Project 1	Email 02/06
3	02/04	Constraints	Lesson 5	20	Quiz 3	Email 02/13
		UID, Data Types Modeling Change	Lesson 6	40	Project 2	Email 02/20
4	02/11	ER Model Patterns	Lesson 7	30	Activity 4	Email 02/20
		ER Model Mapping	Lesson 8	30	Activity 5	Email 02/20
				20	Quiz 4	Email 02/20
5	02/18	Subtype Model Mapping	Lesson 9	20	Quiz 5	Online 02/24
		Data Normalization	Lesson 10	40	Activity 6	Email 02/27
			Chapter 4	40	Activity 7	Email 02/27
				40	Project 3	Email 03/06
6	02/25	Denormalized Data	Chapter 6	20	Quiz 6	Email 03/06
		Final Project	Lesson 11	20	Quiz 7	Online 03/06
				100	Final Project	Email 03/06
7	03/04	Final Project Lab Final Exam Review				
8	03/11	Final Exam		200 10		In Class In Class

CIS164AG – Class 43961 – Spring 2009
Oracle: Data Modeling and Relational Database Design
Chandler-Gilbert Community College
Pecos Campus Building C Room C101
January 21, 2009 to March 11, 2009
Wednesday, 4:00 P.M. – 6:40 P.M.

SYLLABUS

Instructor: Phillip Jalowiec
phillip@jalowiec.org
Work Phone: (602) 953-9400
Cell Phone: (602) 621-0659
<http://employeeweb.cgcc.maricopa.edu/j/al/jalowiec/cis164ag>
Page 3 of 3

Statement Regarding Internet and Computer Usage

Internet and computer usage is for class assignments and related research **only!** Inappropriate use of the Internet or computers is subject to loss of privileges, class withdrawal and other disciplinary action.

Statement Regarding Outcomes and Assessment

The faculty and programs at CGCC are dedicated to effective teaching and successful learning with emphasis in the following areas: reading, speaking, listening, writing, mathematics, science, computer application skills, humanities, problem-solving, information literacy, communication, critical thinking, literacy, and personal development.

Periodically, students will participate in formal and informal assessment activities that will help faculty improve programs and teaching strategies. These activities are designed to facilitate student growth in whatever combination of the above outcomes applies to a course.

Statement Regarding Students with Disabilities

Students with disabilities are required to register for services in the Disability Resources and Services (DRS) office in the Student Center at the beginning of the semester. Do not wait to visit the DRS office if you want support with any CGCC classes.

The DRS office will meet with you to determine accommodations based on appropriate documentation. This must be on file before any accommodation will be provided to students. You can contact the DRS office at (480)857-5188.

Faculty are not authorized to provide or approve any accommodations for students in this class without written instructions from the DRS office.

Statement Concerning Plagiarism

Plagiarism is defined as presenting the work of another as one's own. More than four consecutive words from a source other than the writer constitute plagiarism when the source is not clearly identified in appropriate document format.

From the CGCC Student Handbook:

"Plagiarism includes, but is not limited to, the use of paraphrase or direct quotation, of the published or unpublished work of another person with out full and clear acknowledgement. Is also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials."

Information on Computer Lab

The CGCC Computer Lab, located in Building B, Room 123, is available to currently enrolled students. Specific hours of operation, detailed policies and procedures, installed software and additional information may be obtained from the website at www.cgcc.maricopa.edu/cic/ or by calling (480) 732-7221.

Information on Learning Center Services

The CGCC Learning Center's mission is to support student's academic learning by providing free tutoring and resources to reinforce and supplement classroom instruction and to assist CGCC students to achieve academic success. Free tutoring services are available for many CGCC courses. The Learning Center is located on the second floor of the Library, rooms L227, L228, and L229. The Center also provides instructional support in the forms of videotapes, software, and print materials. For a schedule of tutoring hours, additional information or assistance contact the Learning Center at (480) 732-7231, or visit the website at www.cgcc.maricopa.edu/lc.

Information Technology Syllabus

Information on the large variety of Information Technology Programs and Student Support Services available at CGCC and supplementary departmental syllabus information not covered in this syllabus can be found at: employeeweb.cgcc.maricopa.edu/j/al/jalowiec/IT_Syllabus.html.