



Florida Atlantic University  
COLLEGE OF BUSINESS

**ISM 4212-001**  
**CRN: 82231**  
**Database Management Systems**  
**Fall 2013**  
**FL 411**  
**Wednesday, 7:10 – 10 PM**

**Professor Information**

Susan L. Carter  
FL 345 (Fleming Hall)  
[carter@fau.edu](mailto:carter@fau.edu)  
561-297-3925  
blackboard.fau.edu

**Office Hours**

Wed 2:15 — 6:45 PM  
Thur 12:45 – 1:45 PM, 3:30 – 5:00 PM & 6:15 – 7:00 PM  
Others by Appointment  
Subject to change. See Blackboard for current hours.

**Required Text and Materials**



**Oracle 11G: SQL, 2nd Edition**

Joan Casteel  
ISBN-13: 978-1-4390-4128-4  
ISBN-10:1-4390-4128-8

**Database Systems: Design, Implementation, and Management, 10th Edition**

Coronel, Morris & Rob  
ISBN-13: 978-1-111-96960-8  
(You will only need 4 chapters: 1, 2, 14 & 15. They can be purchased as eChapters from the Cengage site below. )



### **Cengage Microsite**

<http://www.cengagebrain.com/shop/isbn/9781111969608>

There are also many excellent resources available on-line.

### Other Required

This course is Blackboard-assisted, and much course business, such as file distribution, emails, assignment submission, and announcements, take place exclusively through Blackboard. *I do NOT calculate any grades in Blackboard. Only raw scores are posted.* In addition, some assignments need to be prepared on a word processor and printed out for submission. Therefore, students are expected to have access to a computer, the Internet, and Microsoft Office 2010. Computers are available to all FAU students in the FAU Open Labs. In addition, you should have an

- flash drive (USB drive)
- ISP for e-mail and Internet access to your student (FAU) e-mail account

### Course Description

Focuses on the development of well-formed databases for the purpose of data management from the initial design of the database to the implementation and query and to the application of database management tools and techniques such as data security for use in business and government organizations.

### Course Prerequisites, Credit Hours & Class Time Commitments

This course has a prerequisite of ISM 3011 or ACG 4401. 3 Credit Hours

“According to Florida State Statute 6A-10.033, students must spend a minimum 37.5 of **in class** time during a 3-credit course. Additionally, students enrolled in a 3-credit course are expected to spend a minimum of 75 hours of **out-of-class-time** specifically working on course-related activities (i.e., reading assigned pieces, completing homework, preparing for exams and other assessments, reviewing class notes, etc.) and fulfilling any other class activities or duties as required”

### Course Learning Objectives

- Students will reinforce learning of basic database concepts such as tables, relationships and queries. They will be introduced to advanced concepts such as normalization, instance charts, SQL Code. The emphasis will be on database design.
- Students will demonstrate the ability to use software to create ERDs. Students will demonstrate proficiency in use of SQL to create, populate and query a database.



- Students will reinforce their team communication skills by working on a team semester long project with the objective to design and create a database based on a limited real world business problem.
- Students will be able to demonstrate the ability to analyze data and available documents in order to demonstrate proficiency in applying database design techniques.
- Students will be able to demonstrate the ability to use a well-formed design to create a database. Students will use queries to answer business questions relevant to their project by choosing the appropriate data and most appropriate query type.

### Grading Scale

#### **Grading Scale:**

|        |   |    |    |    |    |    |    |    |    |    |    |    |
|--------|---|----|----|----|----|----|----|----|----|----|----|----|
| Grade  | F | D- | D  | D+ | C- | C  | C+ | B- | B  | B+ | A- | A  |
| Cutoff | 0 | 60 | 63 | 67 | 70 | 73 | 77 | 80 | 83 | 87 | 90 | 93 |

Everyone is given the same opportunity to achieve a high grade. The best way to end the semester well is to begin the semester well and follow through consistently. Please realize that you earn your grades and that *your actions alone* determine your grade. I cannot arbitrarily move the grading scale to accommodate individuals' specific needs or desires.

Please do not ask me for an unearned extra point or two at the end of the semester in order to move you into the next grade category. This is not only unfair to those who worked hard all semester to achieve their grades; it is also unfair to expect your instructor to do extra work to fix your mess-ups for you. In life, you reap the consequences of your actions, both positive and negative. We all mess up from time to time so you need to accept that and take responsibility. I will be happy to assist you in acquiring the knowledge and skills required to meet your goals, both within and outside of class. However, your grade itself is determined by you, and not by me.

If you have any questions or concerns about your grades, please contact during office hours within one week of the grade being posted to Blackboard. Beyond one week from grade posting, grade disputes will NOT be considered.



**Course Evaluation Method**

|   |     |      |
|---|-----|------|
| <b>Grade Breakdown</b>  |     |      |
| <b>Orientation Quiz *</b>   | 0%  |      |
| <b>Module 1</b>   |     |      |
| Quiz Chapter 1  | 4%  |      |
| Quiz Chapter 2  | 4%  |      |
| Quiz Chapter 14   | 4%  |      |
| Test 1 MC   | 3%  |      |
| Test 1 Written  | 10% |      |
| <b>Total Mod 1 Tests</b>  |     | 25%  |
| <b>Module 2</b>   |     |      |
| Test 2 MC   | 15% |      |
| Test 2 Written  | 10% |      |
| <b>Total Mod 2 Tests</b>  |     | 25%  |
| <b>Module 3</b>   |     |      |
| Test 3 MC   | 15% |      |
| Test 3 Written  | 10% |      |
| <b>Total Mod 3 Tests</b>  |     | 25%  |
| <b>Project &amp; Journal</b>  |     |      |
| Mod1  | 10% |      |
| Mod 2   | 10% |      |
| Mod 3   | 5%  |      |
| <b>Total Project</b>  |     | 25%  |
| <b>Overall Total</b>  |     | 100% |
| *   |     |      |
| <b>Other quizzes will not open until you have completed the orientation quiz with a score of 100%</b> |     |      |

## Additional Course Policies

### Announcements

You are responsible for reading all announcements posted by the instructor. Check the announcements each time you login to be sure you have read all of them since your last login session. You should check at least every other day.

### Photos

The instructor reserves the right to take photographs to aid in class administration.

### Exams – In Class

- Students may bring two 8 ½ X 11 pages (both sides) full of helpful hints. Your help sheets must be *handwritten by you*. The act of preparing the sheets will help you study for the test. You MUST bring a green scantron and a number two pencil.
- None of the exams are collaborative! Cheating will be dealt with harshly.

### Quizzes – On Blackboard

- Orientation Quiz – There is one orientation quiz which must be taken with a score of 100% before you can attempt any of the other quizzes. You will have an unlimited number of attempts on this quiz. The quiz for Chapter 1 will open before the Orientation quiz is completed. *No other quizzes will be available until you have successfully completed the orientation quiz with a score of 100%.*
- Chapter Quizzes - There will be 3 quizzes given through Blackboard. These must be taken by the date stated in the syllabus or you will receive 0 points on them. You will have up to two (2) attempts and the highest score will be used.
- See Blackboard for complete directions on how to take the quizzes, etc.

### Project & Project Journal

Two people will work on a term-long 3-module project based on an invoice approved by the instructor. Each team member will create a Journal where the he/she will document the teamwork, etc. on the project throughout the term. While both team members will start with the same score, an individual's final project score may be altered by his/her participation on the project as documented in the Journal and/or by the completeness of the journal itself. See Blackboard for detailed instructions.

Note: The final project submission is retained at the end of the semester, so please keep a copy for your records

### Missing Exams

If you are unable to take an exam due to a medical or family emergency you must inform me of that fact on or earlier than the day of the exam, but no later than one week after the exam. To make up any missed exam you must provide a valid reason: documented emergency, illness or standard FAU exception (military service, student athletes, etc). A note from your parent will not be acceptable. You will need to present official documentation as proof (doctor's note, obituary listing you as survivor, etc.) by the date listed in the course schedule. If in the beginning of the semester you provide your instructor with a list of dates you will be absent, it will still be necessary for you to provide written documentation at the time of the absence. If a make-up is given after the graded exam is returned to the class then the instructor may create a new exam for the student.

### Arriving Late to Exams

If you are late to an exam, you will only be able to begin the exam if no students have yet submitted their exam and left the classroom. In addition, if you are late, you will not get extra time to finish the exam. Make-up exams will not be administered for students who are late and arrive after the first student has submitted the exam and left the classroom.

### Late Quizzes

Quizzes must be completed by the date in the schedule. They will not be accepted late.

### Late Project Modules

The project is due at the beginning of class on the day of the exam except for Mod 3. See schedule for dates. Two (2) points will be deducted per day for late submission of project. There will be no late submissions accepted for Module 3. Journals are to be turned with each module. They will not be accepted late. If they are not turned in, at the least you will lose the journal points for that module. You might also have your module grade lessened due to lack of participation in the module.

### Class Participation, Discussion & Attendance

During the lectures, frequent discussions of concepts and implications can be expected in class. Regular attendance and active participation are an essential part of learning in this course, and you may be called upon to share your ideas, experience, or educated opinions. Therefore, it is advised that you come to each class having read the assigned materials. If you do not attend and participate you should not expect to do well in the course

### Practice Exercises & Homework

We will work on Practice Exercises during class. Therefore, bring your books to class. It is possible that, on occasion, the instructor will assign exercises to complete for the next class.

These are to be the individual's work unless stated otherwise. She may randomly collect these and count them as a **bonus** toward your final grade. They can **NOT** be turned in at a later time. If you know you are going to miss class email the assignment to the instructor **before** the class starts.

#### Netiquette Policy

Due to the casual communication common in the online environment, participants are sometimes tempted to relax their grammar, spelling, and/or professionalism; however, remember you need to be professional—your communication should be appropriate. Also, please note that in the online environment you do not have the advantage of voice inflection or gestures. As a result, sarcasm can come across very negative, so this form of communication should be avoided.

#### Audio & Video Recording

There will be *NO* recording of audio or video in the classroom without prior approval from the instructor in writing.

#### E-Mails

The best way to reach me is through sending a “brief” email message or visiting my office during my office hours. Phone calls or phone messages are recommended only during instructor's office hours and not a useful tool if you need an urgent response. Except Saturdays, Sundays, and holidays, email will be generally answered by the instructor within 48 hours.

#### All emails should:

1. Use proper salutations and signatures
2. Be brief and to the point
3. Use the same type of language and manners that you would use in a formal, business setting.
4. Contain ISM 4212 and the day & time of the class in the Subject
5. Be specific questions which are not answered through the course Blackboard
6. Contain the full email thread (where applicable) and an appropriate subject line.

*If you do not follow these guidelines, I reserve the right to request a revised email with appropriate changes before addressing your questions or issues.*



### Miscellaneous Information

- Students are responsible for retaining copies of all material (hard-copy, grade sheets and disk copies) until the final grade is received.
- Grades will not be given out over the phone or by e-mail.

### Inappropriate Behavior

Inappropriate behavior distracts other students and interferes with their learning experience. Inappropriate behavior may include arriving late, leaving early, talking, surfing the net, and so on. Rude and inappropriate behavior will not be tolerated. All electronic devices such as cell phones, beepers & iPods **must be silenced whenever you are in the classroom**. Since it is my responsibility to provide an environment that is conducive to learning for everyone in the class, I will ask any student who chooses to repeatedly distract others to leave. In particularly egregious cases, I will have the student permanently removed from the class. See also Disruptive Behavior Policy Statement later in this document.

### Academic Irregularities

It is valuable to work with a friend or classmate when learning a new application or working out a problem. However, the work that you perform for a grade must be your own work unless "working in groups" is explicitly allowed. Projects in this course must be done by in pairs. Homework is alone. While I encourage you to help and teach each other, you must distinguish help from cheating. If you have trouble doing so, ask yourself if both helper and helpee would be able to complete the assigned work independently when you submit the assignment. If either one of you is unable to do so, you have cheated.

Cheating, plagiarism, copying, unauthorized collaboration, and hiring another person to do your assignments are unacceptable, and are subject to disciplinary actions, including, but not limited to, an "F" in the course, a letter of fact on your student record, and a notation on your transcript in accordance with the policies of FAU and the College of Business. In cases where this has occurred, both the person who cheats/plagiarizes/copies/collaborates/hires another person AND the originator of the work will be punished.

Please note that none of the exams are collaborative, and any cheating attempts will be dealt with harshly and swiftly. Examinations are closed book/notes/computer/cell phone/PDA/iPod (the idea should be clear) except for the 2 pages of helpful hints (see instructions earlier). Hats, cellphones, and any electronic device are disallowed in the exam as well as during review of the exam materials, and things like clear water bottles or visible loose papers may be considered suspicious.





For information about the University's Honor Code, please refer to the policy statement under the section titled Selected College and University policies.

Anti-plagiarism Software

Written components of any assignment or project may be submitted to anti-plagiarism software to evaluate the originality of the work. Any students found to be submitting work that is not their own will be deemed in violation of the University's honor code discussed above.

**COURSE REQUIREMENTS AND SCHEDULE MAY VARY BASED ON CLASS DISCUSSIONS AND COURSE PROGRESS. CHECK BLACKBOARD FOR UPDATES.**

Course Outline

| Fall 2013<br>Wednesday | <b>Anticipated Schedule</b><br>ISM 4212 - Database Management<br>Systems<br>Susan L. Carter  | Rob &<br>Coronel<br>10th Ed<br>Chapter | Casteel<br>Oracle 11G      |   |
|------------------------|--|--|----------------------------|---|
| 28-Aug                 | <b>Introduction</b><br>Database Design, File Systems and<br>Databases  | 1, 2 & 14                              |                            |   |
| 4-Sep                  | <b>Data Models, The Relational Database<br/>Model, Normalization</b>   |  |                            | *Orientation Quiz due 11:59 PM<br>Inv Approval<br>Take Photos   |
| 11-Sep                 | Normalization: continued   |  |                            | *Quiz Chap 1 due by 11:59 PM  |
| 18-Sep                 | ER Modeling  |  |                            | Quiz Chap 2 due by 11:59 PM   |
| 25-Sep                 | ER Modeling Cont.  |  |                            | Quiz Chap 14 due by 11:59 PM  |
| 2-Oct                  | <b>Test # 1</b>  |  |                            | <b>Module 1 due at beginning of class;<br/>Journals Due with module</b>   |
| 9-Oct                  | <b>Instance Charts &amp;<br/>SQL: Basic Select</b><br>Lab: Projects/Exercises  |  | 1, 2,<br>App B 519-<br>522 |   |
| 16-Oct                 | <b>SQL: DDL</b><br>Lab: Projects/Exercises   |  |                            |   |
| 23-Oct                 | <b>SQL: DDL</b><br>Lab: Projects/Exercises   |  | 3, 4, 6, 13                |   |
| 30-Oct                 | <b>Guest Lecturer &amp;<br/>Module continued /Open Lab for<br/>Project</b>   |  |                            |   |
| 6-Nov                  | <b>Test # 2</b>  |  |                            | <b>Module 2 due at beginning of class;<br/>Journals Due with module</b>   |
| 13-Nov                 | <b>SQL: DML, transaction mgmt, concurrency<br/>control</b><br>Lab: Projects/Exercises  | 15.1 - 15.8                            | 5, App A                   |   |
| 20-Nov                 | <b>SQL: Select, restrictions, logical &amp; special<br/>operators, order by; Single row functions</b><br>Lab: Projects/Exercises   |  | 8, 10<br>App A             |   |
| 27-Nov                 | <b>SQL: joins, group functions &amp; sub-<br/>queries.</b><br>Lab: Projects/Exercises  |  | 9, 11                      |   |
| 4-Dec                  | Lab: Open Or Make-up if needed   |  |                            |   |
| 6-Dec                  | <b>THIS IS A FRIDAY</b>  |  |                            | <b>Module 3 Due by 4 PM;<br/>Journals Due with module;<br/>Neither will be accepted late.<br/>Files due by 11:59 PM</b> |
| 11-Dec                 | <b>Test #3 ( 7 - 9 PM)</b>   |  |                            |   |
| <b>Note:</b>           | <b>Additional Important Date</b>   |  |                            |   |
| 18-Oct                 | Last day to drop or withdraw without receiving an "F" in the course  |  |                            |   |
| * NOTE                 | The quiz for chapter 1 will open up before the Orientation Quiz is completed.<br>No other quizzes will open until you complete the orientation quiz with a score of 100% |  |                            |   |



### **Selected University and College Policies**

#### Code of Academic Integrity Policy Statement

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

#### Disability Policy Statement

In compliance with the Americans with Disabilities Act (ADA), students who require special accommodation due to a disability to properly execute coursework must register with the Office for Students with Disabilities ([OSD](#)) – in Boca Raton, SU 133, (561) 297-3880; in Davie, MOD 1, (954) 236-1222; in Jupiter, SR 117, (561) 799-8585; or, at the Treasure Coast, CO 128, (772) 873-3305 – and follow all OSD procedures.

#### Religious Accommodation Policy Statement

In accordance with rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices **and beliefs with regard to admissions, registration, class attendance and the scheduling of examinations and work assignments**. For further information, please see [Academic Policies and Regulations](#).

#### University Approved Absence Policy Statement

In accordance with rules of the Florida Atlantic University, students have the right to reasonable accommodations to participate in University approved activities, including athletic or scholastics teams, musical and theatrical performances and debate activities. It is the student's responsibility to notify the course instructor at least one week prior to missing any course assignment.

#### College of Business Minimum Grade Policy Statement

The minimum grade for College of Business requirements is a "C". This includes all courses that are a part of the pre-business foundation, business core, and major program. In addition, courses that are used to satisfy the university's Writing Across the Curriculum and Gordon Rule math requirements also have a minimum grade requirement of a "C". Course syllabi give individualized information about grading as it pertains to the individual classes.

### Incomplete Grade Policy Statement

A student who is passing a course, but has not completed all work due to exceptional circumstances, may, with consent of the instructor, temporarily receive a grade of incomplete ("I"). The assignment of the "I" grade is at the discretion of the instructor, but is allowed only if the student is passing the course.

The specific time required to make up an incomplete grade is at the discretion of the instructor. However, the College of Business policy on the resolution of incomplete grades requires that all work required to satisfy an incomplete ("I") grade must be completed within a period of time not exceeding one calendar year from the assignment of the incomplete grade. After one calendar year, the incomplete grade automatically becomes a failing ("F") grade.

### Withdrawals

Any student who decides to drop is responsible for completing the proper paper work required to withdraw from the course.

### Grade Appeal Process

A student may request a review of the final course grade when s/he believes that one of the following conditions apply:

- There was a computational or recording error in the grading.
- Non-academic criteria were applied in the grading process.
- There was a gross violation of the instructor's own grading system.

The procedures for a grade appeal may be found in [Chapter 4 of the University Regulations](#).

### Disruptive Behavior Policy Statement

Disruptive behavior is defined in the FAU Student Code of Conduct as "... activities which interfere with the educational mission within classroom." Students who behave in the classroom such that the educational experiences of other students and/or the instructor's course objectives are disrupted are subject to disciplinary action. Such behavior impedes students' ability to learn or an instructor's ability to teach. Disruptive behavior may include, but is not limited to: non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor's expectations for classroom conduct.

### **Faculty Rights and Responsibilities**

Florida Atlantic University respects the right of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions which do not impede their exercise. To ensure these rights, faculty members have the prerogative:

- To establish and implement academic standards
- To establish and enforce reasonable behavior standards in each class
- To refer disciplinary action to those students whose behavior may be judged to be disruptive under the Student Code of Conduct.