CS610 Database Management Systems -- Bryan Higgs

Fall 2005

Syllabus

Office Hours: M, T, W, 2pm – 5pm
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Brief Course Description:
This course is an introduction to relational database management systems. Topics include specifications, tools, procedures, access, normalization, and relational algebra. Students will design and access databases using simple and complex query structures. Standard SQL language is used for the lab projects.

Required Text:

Prerequisite:
CS250, Data Structures and Abstraction

Course Objectives:
To familiarize each student with the concepts, knowledge, and skills involved in designing and using database management systems.

Classroom Policies:
Students are expected to attend and participate in all classes. Attendance is taken at the beginning of each class. Notice to the instructor in advance of any anticipated absence is expected whenever possible. It is the student’s responsibility to make up any material missed as a result of any absence.

Course Requirements and Grading Policies:
Students will be evaluated based on assignments, and a final examination. All tests/examinations are open book.
Assignments: 90%, Final: 10%

Teaching Strategies:
Lecture format, built around the textbook, the course web site, and other resources, with numerous examples chosen to illustrate the concepts. Questions and discussion are strongly encouraged.

Material Covered:
- Introduction
- The Database Environment
- Entity-Relational Modeling
- Enhanced Entity-Relationship Modeling
- The Relational Model
- Relational Algebra
- SQL DML
- SQL DDL
- Normalization
- Security
- Programming with SQL and PL/SQL
- Transactions and Concurrency
**Americans with Disabilities Act (ADA)**

Rivier College wants to provide reasonable accommodations to students with disabilities. To accomplish this goal effectively and to ensure the best use of our resources, the College expects students to provide timely notice of a disability to the Office of Special Services for verification and for evaluation of available options. Any student whose disabilities fall within ADA should inform the instructor within the first two weeks of the term of any special needs or equipment necessary to accomplish the requirements for the course. To obtain current information on this procedure, contact the Office of Special Services at telephone extension 8497, or see Rivier’s website www.rivier.edu display for Specialized Student Services.

**Academic Honesty**

Plagiarism and cheating are serious breaches of academic honesty. In general, plagiarism is defined as the presentation of someone else’s work in whatever form: copyrighted material, notes, film, art work, reports, statistics, bibliographies, and the like, as one’s own, and failing to acknowledge the true source. Quoting word-for-word, or almost so, or using the argumentation of another source without acknowledging this dependence also constitutes plagiarism. Cheating is defined as the giving or attempting to give or to receive unauthorized information or assistance during an examination or in completing an assigned project. Submission of a single work for two separate courses without the per-mission of the instructors involved is also a form of cheating.

If students are unsure whether a specific course of action would constitute plagiarism or cheating, they should consult with their instructor in advance.

Penalties for plagiarism and cheating vary with the degree of the offense and may take the form of the following academic sanctions:

- the grade of F for the work in question;
- the grade of F for the course;
- notification of the department chair and/or Academic Dean of the College of the misconduct of the student;
- recommendations that the student be suspended or dismissed from the College.