

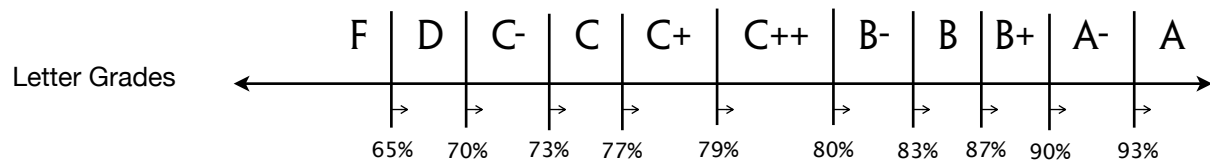
Fundamentals of Database Systems

ITS 408 and MSIS 537 • Fall 2009

-Background

When and Where	LT-001 Monday afternoons 3:30pm through 6:15pm	
Required Text	<i>Database Processing, edition 11</i> by David M. Kroenke and David J. Auer ISBN 978-0-13-230267-8	
Web Site	www.3nfconsulting.com/students-db.aspx	
Instructor	Alan G. Labouseur LT 101 (office hours posted)	Alan.Labouseur@Marist.edu alan@3NFconsulting.com 845-575-3000 x2831 Marist phone 845-440-1102 alternate phone

-Grading



You can earn up to 1000 points over the course of the semester, broken down over the following areas:	Homework	15%	best 3 of 4 at 50 points each = 150 points
	Test One	20%	200 points
	Minor Project	10%	100 points
	Test Two	20%	200 points
	Major Project	20%	200 points
	Attendance	5%	50 points for consistently showing up
	Participation	5%	50 points for constructive participation
	Laziness Adjustment	3%	30 points for not being lazy
	Whining Adjustment	2%	20 points for not whining

-Objectives and Assessment

Assessment methods include assignments, quizzes, exams, discussions, presentations, and projects.	<ul style="list-style-type: none"> To gain solid knowledge of and appreciation for principles and foundations of relational database systems. To gain an understanding of relational database terminology and concepts. To attain in-depth knowledge of the relational data model and why it's superior to several other data models, and will remain so for quite a while. To understand why and how the relational model works. To understand, appreciate, use, and bask in awe of SQL. To design, implement, test, and present a BCNF relational database. To discuss and use new database technology. Continuing Education: Capable problem solvers never stop learning. Students will get practice in finding some answers for themselves.
---	---

Fundamentals of Database Systems

ITS 408 and MSIS 537 • Fall 2009

-Proposed Schedule

Class	Week	Topic	Required
1	Aug 31, 2009	Introduction, A brief history of the database field, Terminology, Functions of some database systems	<i>Presence</i>
2	Sep 7, 2009	<i>No class meeting - Labor Day</i>	<i>Fiddling with your database</i>
3	Sep 14, 2009	The Relational Model, Keys, Nulls and Three-Valued Logic	<i>Load CAP2 into your database</i>
4	Sep 21, 2009	Referential Integrity, basic SQL, SQL for set operations and aggregate functions, Check constraints	<i>Progress on Homework 1</i>
5	Sep 28, 2009	Joins, Query Processing, Inside the Join process, Join forms, Exotic Joins, Optimization Overview	<i>Progress on Homework 1</i>
6	Oct 5, 2009	The System Catalog, More Integrity Constraints, ERDs, Views / SQL Query Practice / Hand out Minor Project	Homework 1
7	Oct 12, 2009	Test One in class	<i>Expertise</i>
8	Oct 19, 2009	Review Test One, Indexes, Database Administration, Authorization and Security, Data Governance	Minor Project
9	Oct 26, 2009	Normalization, Functional Dependencies, Normal Forms	<i>Attention</i>
10	Nov 2, 2009	Database design, Data modeling, a priori Data Quality, Entity subtypes, Encoded data, the Cardinality of Foreign Keys	Homework 2
11	Nov 9, 2009	Discuss Hw2 / Begin Transactions and Locking Discuss final project topics and sample projects	<i>Presence</i>
12	Nov 16, 2009	<i>No class meeting</i>	<i>Homework Progress</i>
13	Nov 23, 2009	Finish Locking and Transactions / the (transaction) Log file Catch up / Discuss Hw3	Homework 3
14	Nov 30, 2009	Stored Procedures / Triggers / OLTP, OLAP, ETL	Homework 4
15	Dec 7, 2009	Review Test Two, Distributed Databases, Embedded SQL, Feng Shui in Database Design	Test Two
16	Dec 14, 2009	Major Project Presentations in class	Major Project

Fundamentals of Database Systems

ITS 408 and MSIS 537 • Fall 2009

-Policies

Tests	Tests cover material presented up to the class in which the test is administered. No makeup tests will be given. If you anticipate missing a test, make arrangements with me in advance to hand in the exam on or prior to its due date.
Homework	All assignments must be handed in at the beginning of class on the day they are due. Since all homework assignments are outlined in this syllabus, arrange to submit homework on schedule, even when a class will be missed.
Late Submissions	No assignments will be accepted late because we will be going over the assignment in class on the day it's due. This is an important part of the learning process, and once we cover the assignment in class, you clearly cannot hand it in after that. (Inconceivable!)
Academic Honesty	<p>As a part this class, I will uphold and vigorously enforce the general policies of this institution on academic honesty and plagiarism. All examinations, papers, projects, and homework assignments are subject to the usual standards of academic honesty as described in the Student Handbook and/or other related publications.</p> <p>Furthermore, I expect my students to behave in a manner appropriate to Computer Science and Information Technology professionals. Professional ethics demand that you embrace traditional “thou shall not cheat” behavior, and also that you soundly reject additional forms of dishonesty and abuse which are uniquely possible working with computers.</p> <p>Remember: Allowing someone to copy your work is every bit as dishonest as copying someone else's, and will be treated just as harshly.</p> <p>Any violation -- actual or perceived (in my sole discretion) -- of this Academic Honesty policy will result in one or more of the following actions in addition to any other forms of recourse available as specified by the Student Handbook:</p> <ul style="list-style-type: none">• You will be ejected from the course with a failing grade.• A letter will be sent to your department chair, your Dean, and the president of the college.• And more. (And worse!) <p>The bottom line is that I expect you to conduct yourself as a person of integrity. This means that plagiarism in any form is completely unacceptable. You are soon-to-be a computing professional, and I encourage you to consult the ACM professional code of ethics. See www.acm.org/about/code-of-ethics.</p>

Fundamentals of Database Systems

ITS 408 and MSIS 537 • Fall 2009

-Policies

Appealing Grades

This semester I will implement an appeals process to handle any questions you might have about fairness related to the grading of your work. I will address each and every one of your concerns. To that end, and in order to be fair and efficient, I insist you to write a letter of appeal.

Rules for Submitting an Appeal

- Appeals must be in the form of a neatly written letter.
- Appeals must be on a separate paper and stapled to the work in question.
- Every appeal (if there is more than one) requires its own paragraph.
- Appeals are due the next class period after the work is returned to you.
- Appeals must be very specific.
- Appeals must be content-based, not personal or emotional.
- Insufficient time is not a basis for an appeal.
- You must communicate what action you would like taken, for instance give full credit, add points, etc.

This process empowers students, advances learning, and moves students toward academic maturity. As such, it benefits both the teacher and the student. Further, students are given a method to argue their points in an appropriate manner and explain their reasoning, while the teacher has an opportunity to learn whether or not he has understood students' reasoning.

Students with Disabilities

Any student requesting or wondering about accommodations based on a disability should see the fine folks at the Office of Special Services in Donnelley 226 and online at www.marist.edu/specialservices.