SYLLABUS

I.   <u>Title</u>: ISS 414 Database Management Systems

II.   <u>Time and Place</u>: Spring Semester 2012,
MWF 2:45-3:50 Rohr Science S13;
Final Examination: Friday, May 4th from 1:00-3:00 p.m.

III.   <u>Credit</u>: Four units for 4 lecture hours

IV.   <u>Instructor</u>: Dr. McKinstry, Professor of Computer Science

V.   <u>Office Hours</u>: Rohr Science 216; phone: (619) 849-2269; email: jeffmckinstry@ptloma.edu

Monday:	10:45-11:50, 1:00-2:05
Tuesday:	11:00-11:50
Wednesday:	10:45-11:50, 1:00-2:05
Thursday:	11:00-11:50
Friday:	10:45-11:50, 1:00-2:05

VI.   <u>Texts</u>:
Ramakrishnan, R. and Gehrke, J. *Database Management Systems, 3/e*. McGraw Hill, San Francisco, 2003.

VII.   <u>Position of the course in the college curriculum</u>:

The course is offered as an upper-division requirement for the major in Information Systems, and as an upper-division elective for Computer Science Majors.

VIII. <u>Objectives of the course</u>: At the conclusion of the course the student should understand the following:
Overview of database management systems
Database Design essentials
Data Models
SQL
Database Applicatoin Development
Internet Applications.
As time permits, topics may include data integrity, query optimization, and database security.

IX.   <u>Course Organization</u>: Class time will be used for:

1.   Introduction of material in the text to be assigned.
2.   Discussion of assigned material in the text.
3.   Discussion of student questions on the test or class material, including exercises attempted.
4.   Administering tests.
5.   Laboratory projects

X.   <u>Attendance</u>: See the College <u>Catalogue</u> for a complete statement.

XI.   Student Evaluation:

Laboratory Projects	20%
Homework	15%
Student lecture	10%
Midterm Exams	30%
Final Exam	25%

Late assignments will be worth 70% if turned in after the class period in which they are due, and are **not accepted** if late by more than 7 days.

Grades will be determined as follows:

93-100%	A
90-92%	A-
87-89%	B+
83-86%	B
80-82%	B-
77-79%	C+
73-76%	C
70-72%	C-
67-69%	D+
63-66%	D
60-62%	D-
0-59%	F

XII.   Tentative Schedule

Week 1, Jan. 10: Chapter 1, Overview of Database Systems
Week 2, Jan. 16: Chapter 2, Database design
Week 3, Jan. 23: Chapter 2, Database design
Week 4, Jan 30: Chapter 3, Relational model
Week 5, Feb. 6: Chapter 3 and 4, Relational model
Week 6, Feb 13: Chapter 5, SQL
Week 7, Feb 20: Chapter 5, SQL
Week 8, Feb 27: **Exam 1**
Week 9, Mar. 5: **Spring break. No Class**
Week 10, Mar. 12: Chapter 6, Database Application Development
Week 11, Mar. 19: Chapter 6, Database Application Development
Week 12, Mar. 26: Chapter 7, Internet Applications.
Week 13, April 2: **Exam 2** and Chapter 19 Schema Refinement, FDs, and Normalization
Week 14, April 9: Chapter 21 Security and Authorization
Week 15, April 16: Chapter 28 Spatial Data Management
Week 16, April 23: **Student Presentations**
Week 17, **Final exam, Friday. May 4th, 1:00-3:00 p.m.**