



CPT 242 - Database

Information Systems Technology Department

Semester: 2009 Spring

Catalog Course Description: This course introduces data base models and the fundamentals of data base design. Topics include data base structure, database processing, and application programs, which access a database.

Prerequisite(s): CPT 101, CPT 104 or CPT 170, MAT 100 or MAT 039

Corequisite(s):

Credit Hours: 3.0

Departmental Website: <http://www.midlandstech.edu/edu/ed/ISM/CPT/>

WebCT Login Page: <http://courses6.midlandstech.edu>

Instructor: Mr. Stamarian Watts

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Departmental Assistant: Kristine Newton
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Department Chair: Marian R. Nurse
nursem@midlandstech.edu

Program Coordinator: Bruce Martin (martinb@midlandstech.edu)

Class Schedule(s): Section B61 – Tuesday/Thursday 6:00-7:25PM [RH 125]

Office Hours:

Textbook(s): *Database Management System, 3rd Edition* by: Raghu Ramakrishnan, 2006.
McGraw-Hill Irwin Publishers.
ISBN#: 0072465638. ISBN#: 0-13-167267-3.

**Additional
Textbooks/Readings:**

Equipment: A flash drive to save programs is highly recommended.

**General Education Core
Competency Statement:**

Course Objectives: Upon completion of this course the student will be able to:

1. Determine need for, and objective of, a database management system (DBMS).
2. Determine the relationship between users, application software, database software, and operating systems in a database system.
3. Identify and organize data in terms of records within relational. Be familiar with hierarchical and network models.
4. Determine the techniques for defining a database with fields in the various records; access, insert, update and delete records using SQL.
5. Design databases using various design schemas.
6. Use first, second, and third normal forms.

Course Outcomes and Competencies:

Intended Course Outcome: Students will know how to create normalized relational database tables and use SQL commands.

Course Competency: Students will demonstrate understanding of the technical concepts involving the creation of normalized relational database tables and the use of the SQL commands.

Performance Measurement Instrument: The success criterion is that 70% of the students will answer 80% of the technical questions correctly.

Course Attendance: Students may not miss more than 15% of scheduled classes, regardless of the reason for the absence. After exceeding this limit, a student will be withdrawn from the class by the instructor. Attendance will be taken at the beginning of the class period. Students not answering to the roll call at that time will be marked absent. Students arriving late may check-in with the instructor after class in order to be marked tardy. Three marks of tardy will count as one absence. Students are required to remain in class until class is dismissed, and will otherwise be marked absent, unless prior arrangements are made in advance with the instructor. Attendance records will not be changed retroactively after the scheduled class meeting.

PLEASE NOTE THE FOLLOWING: You are responsible for all material and announcements presented, whether you are present or absent.

Withdrawal: Should the maximum allowable absences be exceeded prior to midterm, a "W" will be submitted to the registrar to be recorded on the student's transcript. Should the maximum allowable absences be exceeded after midterm, a "W" will be submitted to the registrar if the student was passing the course at the time of withdrawal OR a "WF" will be submitted if the student was failing the course at the time of withdrawal.

Course Requirements: Weekly Homework Assignments, Weekly Quizzes, Midterm Exam, Final Exam, and Final Database Project [assignments & instructions will be posted on WebCT]

- All work will be submitted via WebCT unless otherwise authorized
- All work should be saved on backup storage devices (Disk, CD, USB, etc).

No make-up work for ANY assignments, quizzes, tests, or exams

Course Grading: Homework graded for completion; other assignments graded for accuracy of submitted work. **LATE WORK PENALTY:** 15 points deducted if submitted by next class meeting date, otherwise grade of zero (0) recorded

FINAL GRADE CALCULATION (by percentage): Class Participation: 5; Homework: 20; Exam 1: 20; Exam 2: 20; Final Exam: 20; Database Project: 15

Grading Scale:	94-100	A	Superior work
	87-93	B	Good Work
	78-86	C	Average Work
	0-78	F	Unsatisfactory Work

Special Procedures:**Field Trips:**

Classroom Rules/Other: Respect for all individuals in the classroom (students and instructors) is expected
No food or drinks allowed in the classroom

Course Topic Outline/Course Calendar with Assignments:

**Midlands Technical College
CPT 242 - Database
Course Outline – Spring 2009**

DISCLAIMER: The contents of this outline are subject to change - See WebCT for details on specific assignments.

Day	Date	Agenda
Tuesday	January 13, 2009	Class Introduction
Thursday	January 15, 2009	Chapter 1
Tuesday	January 20, 2009	Chapter 1
Thursday	January 22, 2009	Chapter 1
Tuesday	January 27, 2009	Chapter 2
Thursday	January 29, 2009	Chapter 2
Tuesday	February 3, 2009	Chapter 2
Thursday	February 5, 2009	Chapter 3
Tuesday	February 10, 2009	Chapter 3
Thursday	February 12, 2009	Chapter 3
Tuesday	February 17, 2009	Chapter 3
Thursday	February 19, 2009	Chapter 4
Tuesday	February 24, 2009	Chapter 4
Thursday	February 26, 2009	Chapter 4
Tuesday	March 3, 2009	Midterm Exam
Thursday	March 5, 2009	Chapter 5
Tuesday	March 10, 2009	Spring Break
Thursday	March 12, 2009	Spring Break
Tuesday	March 17, 2009	Chapter 5
Thursday	March 19, 2009	Chapter 5
Tuesday	March 24, 2009	Chapter 6
Thursday	March 26, 2009	Project Workday
Tuesday	March 31, 2009	Chapter 6
Thursday	April 2, 2009	Chapter 7
Tuesday	April 7, 2009	Chapter 7
Thursday	April 9, 2009	Project Workday
Tuesday	April 14, 2009	Chapter 8
Thursday	April 16, 2009	Chapter 9
Tuesday	April 21, 2009	Project Workday
Thursday	April 23, 2009	Projects Due
THURSDAY	April 30, 2009	FINAL EXAM

PLEASE NOTE: Should change become necessary, the instructor reserves the right to adjust the requirements, pace, or scheduling of this course. Any change will be announced in class before it becomes effective.