

## Course Information

<b>Course Title:</b>	Database Management
<b>Course Number:</b>	CIS 2165
<b>Credit Hours:</b>	3
<b>Lab Hours:</b>	None
<b>Prerequisite(s):</b>	CIS 1111
<b>Course Description:</b>	Introduction to database management systems. Discussion of data base environments, design, planning, implementation and administration in a relational model environment. Students will design and develop a simple database and implement a portion of this application including forms, queries and reports. Emphasis on database design techniques, normalization and the SQL database language.
<b>Required Text:</b>	Concepts of Database Management , 7th ed. (Pratt, Adamski) Course Technology 2012 Microsoft Access 2010 (brief), (Adamski, Finnegan) Course Technology 2011
<b>Required Materials:</b>	You should use Microsoft Access 2010 software. If you use Access 2013, 2007, or 2003, be aware that the software will be different than the Access textbook. As a registered student, you can use the computer labs at Sinclair. These labs have Office and staff members to assist you with questions. If you wish to use a relational database product other than Access, contact me the first week of the course. You can get the Access software via the Dreamspark program.
<b>Technical Requirements:</b>	For additional information go to the Technical Help Page under <b>Resources</b> tab.

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## Faculty Information

<b>Instructor:</b>	Patty Santoianni
<b>Department:</b>	CIS (Computer Information Systems)
<b>Course Email:</b>	Please use ANGEL Email
<b>Emergency Email:</b>	patty.santoianni@sinclair.edu
<b>Phone:</b>	937-512-2750
<b>Office Location:</b>	5111
<b>Office Hours (campus):</b>	M-W: 9-9:30 (11-324); T-R: 9:00-11:00
<b>Office Hours (online):</b>	By appointment

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## Course Outcomes

### General Education Outcomes:

Critical Thinking/Problem Solving

### Course Outcomes:

Database Management Systems Basics: Define a database and describe the differences between traditional file management systems and database management systems (DBMS). Identify the concepts of the relational model, normalization, dependencies, integrity and constraints.

Database Functions: Describe the functions of database recovery, security and administration. Demonstrate knowledge of basic data warehousing concepts.

SQL and QBE: Utilize SQL and QBE commands to define, query and manipulate a relational database.

Database Design and Development: Apply databases to actual situations and business problems. Complete the steps involved in database design and development. Construct and use a relational database.

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## Course Requirements

### Outline:

WEEK	TOPICS	CHAPTERS
1	Intro to Database Management	Concepts - Ch 1
2	Intro to Access - Creating a Database	Access - Tutorial 1
3	The Relational Model and QBE	Concepts - Ch 2
4	SQL	Concepts - Ch 3
5	Advanced Relational Topics	Concepts - Ch 4
6	Building a Database and Defining Relationships	Access - Tutorial 2
7	Maintaining & Querying a Database	Access - Tutorial 3
8	Midterm Exams	
9	Database Design - Normalization	Concepts - Ch 5

<b>10</b>	Database Design Methods	Concepts - Ch 6
<b>11</b>	Creating Access Forms & Reports	Access - Tutorial 4
<b>12</b>	Modifying Table Designs	
<b>13</b>	DBMS Functions	Concepts - Ch 7
<b>14</b>	Database Administration	Concepts - Ch 8
<b>15</b>	Database Management Approaches & Data Warehousing	Concepts - Ch 9
<b>16</b>	Final Exam	

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## Grading Information

### Grading Policy:

ASSIGNMENT	POINTS
Concepts homework (8 @ 10 points each)	80
Access Tutorials (6 @ 10 points each)	60
In-class/Group exercises	25
Mid-terms	50
Database project	105
Final Exams	100
<b>Total Points</b>	<b>420</b>

GRADING SCALE	POINTS
A	378 - 420
B	336 - 377
C	294 - 335
D	252 - 293
F	< 252

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## Course Policies

**Attendance/Participation Policy:** You are expected to be prepared for, attend (including being on-time and staying for the entire class), and actively participate in all classes. As a college student, you will be treated and respected as an adult, and are expected to act accordingly. If you are absent for an Exam, you must notify me BEFORE class either via phone or email.

**Assignments/Late Policy:** The Syllabus may be changed at instructor's discretion. Due dates will be announced in class. All work is due at the beginning of the class. **Assignments turned in after the due date will be given a reduction of 10% points per calendar day. Homework exercises will not be accepted more than 1 class late unless excused by the instructor.** Absence is not an excuse for late assignments. In-class/group exercises cannot be made-up.

**Plagiarism Policy:** Ethics and values are very important to both a successful personal life and to a successful career. Academic dishonesty will not be tolerated. Do your own work! Please read the Sinclair Academic Integrity Policy. **Not following these policies** will be regarded as academic misconduct, and treated according to Sinclair's policy on academic misconduct. The minimum penalty in cases of academic misconduct is a grade of zero for the assignment or exam involved.

**Civility Policy:** Pagers, iPods and cell phones are not permitted to be on in the classroom. The instructor must approve any exceptions. Please do not surf, tweet, email, text etc. during class.

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## Sinclair Policies

### **Sinclair Academic Policies:**

Click the link below to view policies such as dropping a course, withdrawing from college, late registrations, change of schedule, administrative withdrawal, grades, student behavior guidelines, safety and security, academic and other counseling. Understanding these policies is the responsibility of every student.

[Important Sinclair Policies](#)

### **Sinclair Semester Dates:**

Click the link below to view important semester dates such as registration deadlines, payment deadlines, start and end dates for the semester as well as the last day to withdraw with a refund and the last day that withdrawal is allowed.

[Sinclair Semester Dates](#)

### **Sinclair Honor Code and Academic Integrity Policy:**

[Sinclair Honor Code and Academic Integrity Policy](#)