
Course Prefix/Number: CPT 242
Course Title: Database
Lecture Hours/Week: 3.0
Lab Hours/Week: 0.0
Credit Hours/Semester: 3.0

[Distance Learning Attendance/VA Statement](#)
[Textbook Information](#)

COURSE DESCRIPTION

This course introduces database models and the fundamentals of database design. Topics include database structure, database processing, and application programs which access a database.

COURSE COMPETENCIES

Upon successful completion of this course, the student should be competent to perform the following tasks:

Module 1 – Database Basics

- Define, discuss, and appropriately use database terminology.
- Demonstrate an understanding of issues and concerns related to database, tables, relationships, queries, etc. Differentiate between relational, network, and hierarchical models of DBMS (database management systems).

Module 2 – Database Development

- Build a conceptual, logical, and physical model of a database including multiple tables.
- Develop forms for data input.
- Develop queries to extract specific records.
- Perform various types of queries such as update, delete, etc.
- Create meaningful reports based on queries and/or tables.
- Perform sorts.
- Create indexes.

Module 3 – Database Advanced Topics

- Import data from ASCII files.
- Import records from another database.
- Demonstrate an understanding of the importance of data security.
- Perform back-ups and restore.

MINIMAL STANDARDS

Minimal standards of performance on all course competencies for receiving credit for the course and indicated by 60% overall accuracy on evaluation instruments that address the course competencies listed above. Required standards of performance on all course competencies for enrollment in subsequent higher-level computer technology courses are indicated by 70% overall accuracy on evaluation instruments that address the course competencies listed above.

COURSE REQUIREMENTS

Students are responsible for attending all schedule class meetings until they have completed all course requirements. Students are responsible for all material covered and for all assignments made in all classes. Any student caught cheating or involved in other academic dishonesty will be given a grade of zero and will be subject to further disciplinary action.

ATTENDANCE POLICY

The attendance policy as stated in the York Technical College Handbook will be enforced. Make-up tests will not be given for theory tests. If a student must miss a theory test, he/she will get a zero for that test. However, students have the option of taking the comprehensive final. The student's grade on the comprehensive final will replace his/her lowest theory test grade. It is the student's responsibility to schedule a time for a make-up hands-on test with his/her instructor.

EVALUATION STRATEGIES/GRADING

Module 1 (25% total)	Module 2 (50% total)	Grading Scale	
		90-100	A
Theory Test (maximum of 2) – 12.5% of final average Homework & Learning Activities – 7.5% of final average Discussions – 5% of final average	Performance Tests/Projects – 15% of final average Theory Test (maximum of 2) – 10% of final average Homework & Learning Activities – 15% of final average Discussions – 10% of final average	89-89	B
		70-79	C
		60-69	D
		Below 60	F
Module 3 (25% total)			
Performance Tests/Projects – 7.5% of final average Theory Test (maximum of 2) – 5% of final average Homework & Learning Activities – 7.5% of final average Discussions – 5% of final average			

ENTRY LEVEL SKILLS: Keyboarding skills and fundamentals of the Windows operating system

PREREQUISITES: CPT 212 or CPT 232 – minimum grades of “C”

CO-REQUISITES: None

Disabilities Statement: Any student who feels s/he may need an accommodation based on the impact of a disability should contact the Special Resources Office (SRO) at 803-327-8007 in the 300 area of Student Services. The SRO coordinates reasonable accommodations for students with documented disabilities.