

Course Prefix/Number: CPT 240
Course Title: Internet Programming w/ Databases
Lec Hours/Week: 3.0
Lab Hours/Week: 0.0
Credit Hours/Semester: 3.0

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

COURSE DESCRIPTION

The course is a study of the implementation of dynamic web pages focusing on the development of web sites that interact with databases utilizing current server-side technologies along with the databases to deliver dynamic content to client browser. This course introduces ASP.NET.

COURSE COMPETENCIES

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

Module 1 – Introduction to ASP.NET and the .NET Framework

- Explain the concept of ASP.NET.
- Describe the .NET Framework
- Create ASP.NET pages.
- Connect to relational databases including Access, SQL Server, etc.
- Display data in tables, using the GridView and DetailsView controls.
- Customize the appearance of the GridView and DetailsView controls.

Module 2 – Data Manipulation

- Enable sorting and paging in display controls.
- Manipulate sort criteria using control properties and SQL.
- Display data in selection list control.
- Filter records based on user input and query strings using controls provided through ASP.NET.
- Display further details about records using controls provided through ASP.NET.
- Display data in and bind data to several template controls.
- Insert, update and delete data in databases

Module 3 – Validation, data objects, and architecture

- Validate user input using various validation controls.
- Develop multi-tier applications.
- Create and manipulate data objects using Visual Basic or C#
- Process hierarchical data such as XML
- Cache data from pages and databases
- Handle events for data controls using Visual Basic or C#

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 (30% total) Test(s) – 15% of final average Program(s) / Homework – 15% of final average	Module 2 (40% total) Test(s) – 20% of final average Program(s) / Homework – 20% of final average	Grading Scale	
		90-100	A
		89-89	B
		70-79	C
		60-69	D
		Below 60	F
Module 3 (30% total) Test(s) – 15% of final average Program(s) / Homework – 15% of final average			

ENTRY-LEVEL SKILLS

A student entering this course should be familiar with structured programming concepts, SQL, and be familiar with the Windows and Visual Studio environments.

PREREQUISITES: CPT 212 and IST 272 with 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.