

Computer Programming

Portland Community College

"Database Windows Applications Development Using MySQL and VB.NET"

Instructor: **Ernest Bonat, Ph.D.**

CRN: **17334**

Time: **06:00 PM – 09:00 PM**

Days: **Mondays and Wednesdays**

Dates: **Feb/23/2009 – Mar/18/2009**

Location: **Southeast Center, Mt Tabor Hall (TABOR)**

Room: **117**

Overview

This course provides students with the knowledge and skills need to develop production database Windows applications using the MySQL 5.0 Open Source server and Microsoft VB.NET 2008 Express Edition. The course covers new features of MySQL 5.0 such as stored procedures, functions, triggers and views. Toad for MySQL 4.0 freeware will be used as a GUI management tool to design and debug database objects. The Microsoft HTML Help Workshop freeware compiler will be used to design and implement online help file and user documentation.

Audience

This course has been implemented for windows application VB.NET programmers. Students should already have an understanding of database design and implementation, ADO.NET data access technologies, beginning VB.NET programming skills, and knowledge of event-driven windows programming, object oriented technologies, and SQL.

Format

The course is instructor-led and will consist of lectures, programming examples and case studies during class as well as reading materials and homework assignments. The students will be expected to complete programming assignments including design, development and debugging of VB.NET 2008 programs against a MySQL 5.0 database. The homework assignments will have some programming examples. The required software for this class is freeware and it will be provided by the instructor.

Topics

- MySQL database design and implementation review
- Learn and use Toad for MySQL to manage database tables, stored procedures, functions, triggers and views
- Basics of SQL:2003 programming language
- Intermedium and advanced VB.NET programming
- Design and development class libraries
- Object-oriented programming techniques
- ADO.NET data access technologies
- Use MySQL Connector/.NET data access technologies
- Design and development MySQL stored procedures, functions, triggers and views
- Design, development and deployment database windows applications
- Online help and user documentation design and implementation

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