SUFFOLK COUNTY COMMUNITY COLLEGE
Western Campus
Brentwood, New York

COURSE OUTLINE

COURSE TITLE: Programming for Relational Database Management CATALOG NO: CST272

INSTRUCTOR: Prof. Carl B. Struck SEMESTER: Spring 2021

OFFICE: Nesconset Hall - Suite N1 (Room 4) (851-6288) MESSAGES: 861-6770

Monday • 12:30 - 2:10
Tuesday • 1:10 - 2:00
Wednesday • 2:10 - 3:10
Thursday • 8:45 - 9:30

E-MAIL: struckc@sunysuffolk.edu WEB ADDRESS: http://www.profstruck.net

TEXTBOOK:

Delamater, M. & Boehm, A. Murach's ASP.NET 4.6 Web Programming with C# 2015. Indianapolis, IN: Murach, 2016. (ISBN 978-1-890774-95-0)

–or–

Delamater, M. & Boehm, A. Murach's ASP.NET 4.6 Web Programming with C# 2015. Indianapolis, IN: Murach, 2016. (ISBN 978-1- 943872-06-0) (on-line version from Vital Source)

SUPPLIES:

- Microsoft Visual Studio Community 2019; this free download and install requires that you are a current college student either full-time or part-time.
- USB flash drive (memory stick) or some other storage device for saving files.

COURSE OBJECTIVES:

At the end of this course, students will be able to:

- Design a database system
- Design a system using structure query language (SQL)
- Demonstrate the use of the Visual Studio IDE in the creation of data base programs
- Create a Web-based DBMS program using structured programming style
- Use, describe and write programs using multiple files
- Store, retrieve and update data in the database using structured programming style
- Present database web browser oriented programs in detail.

PROCEDURES FOR ACCOMPLISHING THESE OBJECTIVES:

- Class lectures and discussions.
- Use of audio-visual devices.
- Homework review and practice problems from textbook and other sources.
- Application problems on IBM compatible computers.

STUDENT REQUIREMENTS FOR COMPLETION OF THE COURSE:

- End of unit projects: 60%
- Unit quizzes (***see below***): 15%
- ASP.NET final project: 25%

Do not expect to get an "A" grade for doing the base project; rather that grade is reserved for students who go beyond the requirements of the assignment.

Multiple-choice ***unit quizzes*** based upon the assigned textbook readings will be given for most chapters. Quizzes located in Blackboard consist of ten questions each and will be "open book." All quizzes must be completed by the due date listed in the course outline before 12:30 p.m. when class begins that day.

Students must submit projects to the instructor via Blackboard, an Internet website maintained jointly by Suffolk Community College and the SUNY Learning Network. All assignments and projects are due by the end of the day (11:59 p.m.) on the date announced unless otherwise stated. No late assignments will be accepted unless an extension date is ***prearranged*** with the instructor.

Although computer lab time may be scheduled each week during class time, students should be aware that additional hands on computer time outside of class may be necessary to complete the requirements of this course.

ATTENDANCE REQUIREMENTS:

"The College expects that each student will exercise personal responsibility with regard to class attendance. All students are expected to attend every class session of each course for which they are registered. Students are responsible for all that transpires in class whether or not they are in attendance. The College defines excessive absence or lateness as more than the equivalent of one week of class meetings during the semester. Excessive absence or lateness may lead to failure in a course or removal from the class roster." (College Catalog)

Attendance is not a factor in the computation of the course grade but may be a factor in determining class participation. It is the student's responsibility to make his/her attendance known to the instructor if arriving late. Students who stop attending classes ***without officially withdrawing*** from the course will receive a failing grade (F).

SCHEDULE OF TOPICS TO BE COVERED:

- Jan 27

  - ✓ Getting Started with Visual Studio
  - ✓ Reading: Delamater & Boehm–Chapter 1 (Unit Quiz: Feb 3)
  - ✓ **Project 1** (Due: Feb 3)

- Feb 3

  - ✓ Instruction to ASP.NET and C#
  - ✓ Reading: Delamater & Boehm–Chapter 2 (Unit Quiz: Feb 3)
  - ✓ **Project 2** (Due: Feb 10)

- Feb 10

  - ✓ An HTML and CSS Primer
  - ✓ Reading: Delamater & Boehm–Chapter 3, pp. 73-103 (Unit Quiz: Feb 10)
  - ✓ Supplemental reading: W3Schools. HTML Tutorial (through "HTML Lists"). Copyright 1999-2019 by Refsnes Data.
  - ✓ Supplemental reading: W3Schools. CSS3 Tutorial (through "Styling Tables"). Copyright 1999-2019 by Refsnes Data.
  - ✓ **Project 3** (Due: Feb 17)

- Feb 17

  - ✓ Web Forms and Input Controls
  - ✓ Reading: Delamater & Boehm–Chapter 6 (Unit Quiz: Feb 17)
  - ✓ **Project 4** (Due: Feb 24)

- Feb 24

  - ✓ Validation Controls
  - ✓ Reading: Delamater & Boehm–Chapter 7 (Unit Quiz: Feb 24)
  - ✓ Supplemental reading: RegExLib.com. Regular Expression Library. Copyright 2001-2019. RegexAdvice.com | ASP.NET Tutorials.
  - ✓ **Project 5** (Due: Mar 3)

- Mar 3

  - ✓ Master Pages
  - ✓ Reading: Delamater & Boehm–Chapter 9 (Unit Quiz: Mar 3)
  - ✓ **Project 6** (Due: Mar 10)

- Mar 10

  - ✓ Microsoft SQL Server Review, SQL and the SqlServerSource Control
  - ✓ Reading: Delamater & Boehm–Chapter 13 (Unit Quiz: Mar 10)
  - ✓ Supplemental reading: Creating Database Tables in Microsoft SQL Server (see the instructor's website)
  - ✓ Supplemental reading: W3Schools. SQL Tutorial (through "SQL Inner Join"). Copyright 1999-2019 by Refsnes Data.
  - ✓ **Project 7** (Due: May 17)

- Mar 17 – 24

  - ✓ GridView
  - ✓ Reading: Delamater & Boehm–Chapter 14 (Unit Quiz: Mar 17)
  - ✓ Supplemental reading: Ozgur–Passing Variables between Pages Using QueryString. Copyright © Atilla Ozgur, 2004.
  - ✓ **Project 8** (Due: Mar 24)
  - ✓ **Project 9** (Due: Mar 31)

- Mar 31

  - ✓ Data Bound List Controls, DetailsView and FormView
  - ✓ Reading: Delamater & Boehm–Chapter 15 (Unit Quiz: Mar 31)
  - ✓ **Project 10** (Due: Apr 7)

- Apr 7

  - ✓ Templated Data Web Control (ListView and DataPager)
  - ✓ Reading: Delamater & Boehm–Chapter 16 (Unit Quiz: Apr 7)
  - ✓ **Project 11** (Due: Apr 14)

- Apr 14

  - ✓ More Templated Data Web Controls (DataList and Repeater)
  - ✓ Supplemental readings (Redmond, WA: © 2013 Microsoft Corporation): Displaying Data with the DataList and Repeater Controls.
  - ✓ Unbound Insert, Update and Delete Methods
  - ✓ Supplemental readings (Redmond, WA: © 2013 Microsoft Corporation):
    - SqlDataSource.Insert Method
    - SqlDataSource.Update Method
    - SqlDataSource.Delete Method
  - ✓ **Project 12** (Due: Apr 21)

- Apr 21 – May 5

  - ✓ **The ASP.NET Final Project** (Due: May 5)