ENTD463

Course Summary

Description

Course Description: This course is a study of the C# language and its object-oriented facilities to create applications using the .NET Framework. Students will explore data types, classes, methods, parameters, properties, interfaces, iteration, conditional branching, constructor methods, and destructor methods. They will examine parameter passing, method overloading, method overriding, access modifiers, exception handling, and event handling. They will also create forms with controls, and with event handling for these controls. Students will also use Visual Studio.Net to set profiles, create projects, use the solution explorer, set references, set project properties, use the code editor, define assembly information, compile the code, run the application, and debug the program. Students must have access to Visual Studio software. Students must have access to Microsoft Visual Studio 2010 or Visual C# 2010 Express Edition or higher. (Prerequisite: ENTD200 OR ENTD211 and ENTD361)

Course Scope:

This is the fourth course in a series of courses on Enterprise Programming that focuses on developing applications within the context of the Microsoft's .NET Framework. A general understanding of the workings of the World Wide Web is required prior to starting this course.

Objectives

After successfully completing this course, you will be able to

1. Explain the features, functionality, power, and advantages of C#.NET that have made it a viable tool for website design, development, deployment, and management.
2. Apply the skills of making decisions, looping and using arrays using the C# language
3. Examine the use of parameter passing, method overloading, and method overriding
4. Apply the use of classes, constructor methods and destructor methods
5. Assess the principles of inheritance in a program
6. Examine the process for handling exceptions
7. Apply the skills of using controls and handling events
8. Apply the rudiments of the programming language available in the Visual C# development environment

Outline

Week 1:

Topic

Programming Concepts and using Data

Learning Objectives

Explain the features, functionality, power, and advantages of C#.NET that have made it a viable tool for website design, development, deployment, and management.

Readings

Chapters 1,2, 3

Assignment

Introduction Forum
Week 1 Forum
Assignment 1

Week 2:

Topic

Conditional Branching, Iteration, and Arrays

Learning Objectives

Apply the skills of making decisions, looping and using arrays using the C# language

Readings

Chapters 4,5,6

Assignment

Week 2 Forum
Assignment 2

Week 3:

Topic

Methods and Parameters

Learning Objectives

Examine the use of parameter passing, method overloading, and method overriding

Readings

Chapters 7, 8

Assignment

Week 3 Forum
Assignment 3

Week 4:

Topic

Defining, Declaring, and Using Classes

Learning Objectives

Apply the use of classes, constructor methods and destructor methods

Readings

Chapters 9

Assignment

Week 4 Forum Assignment 4

Week 5:

Topic

Inheritance

Learning Objectives

Assess the principles of inheritance in a program

Readings

Chapter 10

Assignment

Week 5 Forum
Assignment 5

Week 6:

Topic

Exception Handling

Learning Objectives

Examine the process for handling exceptions

Readings

Chapter 11

Assignment

Week 6 Forum
Assignment 6

Week 7:

Topic

Using control and handling Events

Learning Objectives

Apply the skills of using controls and handling events

Readings

Chapters 12,13

Assignment

Week 7 Forum

Assignment 7

Week 8:

Topic

Files and Streams

Learning Objectives

Apply the rudiments of the programming language available in the Visual C# development environment

Readings

Chapter 14, 15

Assignment

Week 8 Forum
Assignment 8: Final Project

Evaluation

Students are expected to maintain routine contact with the instructor throughout the course. While the number of contacts may vary according to the specific course and individual student need, the University requires periodic weekly contacts during the semester. Contact will consist of professor notes, forum interaction, and email feedback. The method of discussion will be on-line related to issues concerning forum assignments, quizzes, assignments, the midterm project and final project.

TEXTBOOK READINGS
Review the assigned textbook and support materials for this course! Review the table at the end of the syllabus to see assigned readings for each week.

PROJECTS

The projects for this course are located throughout each Lesson. The projects that are required for grading with this course are created from scratch.

FORUM

The Forum assignments for this course are designed to promote interactivity among students and enhance

the online learning process. The Forum provides maximum flexibility because you do not have to be online at the same time as another person and you can read what other students have written.

Forum Timing: For the forum, you must post your work by midnight on **Thursday**, continue to follow your classmates' posts for the remainder of the week, and post the follow-up peer responses prior to midnight on **Sunday, *except for week one***. Your follow-up posts can add additional insight to a classmate's opinions or can challenge their opinions. Use examples from the readings, or from your own research, to support your views, as appropriate. Be sure to read the follow-up posts to your own posts and reply to any questions or requests for clarification. You are encouraged to conduct research and use other sources to support your answers.

Required Participation: Please keep in mind that the forum assignments require you to make at least 1 post to the forum with at least 250 words about the topic and also respond to at least 2 peers' posts with at least 150 words. Please be advised that there will be point deductions if you do not comply with these requirements of the assignment. Each one of you will have a different and unique experience that we can all learn from. Your participation in the Forums unleashes the power of synergy in our classroom. To facilitate this interaction, please be prompt when posting your forum work for each week; this provides time for the others to actively engage in the dialogue. For practical reasons, when you respond to other learners' posts, please start your response by referencing their name. I will read and grade your participation by reading the forum. There is no need to also post your forum work in the assignments area of the classroom. Refer to the forum and the syllabus for more details on grading.

MIDTERM PROJECT

The Midterm Project requires you to use your knowledge of to apply knowledge gained.

FINAL PROJECT
The Final Project requires you to use your knowledge gained through-out the course apply what you learned.

Grading:

Name	Grade %
Assignments	50.00 %
Assignment 1	6.25 %
Assignment 2	6.25 %
Assignment 3	6.25 %
Assignment 4	6.25 %
Assignment 5	6.25 %
Assignment 6	6.25 %
Assignment 7	6.25 %
Assignment 8: Final Project	6.25 %
Forums	50.00 %
Week 1 Forum	6.25 %
Week 2 Forum	6.25 %
Week 3 Forum	6.25 %
Week 4 Forum	6.25 %
Week 5 Forum	6.25 %
Week 6 Forum	6.25 %
Week 7 Forum	6.25 %
Week 8 Forum	6.25 %

Materials

Book Title: Microsoft Visual C# 2012: An Introduction to Object-Oriented Programming, 5th Ed - the VitalSource e-book is provided via the APUS Bookstore; hard copy not available from the APUS Bookstore, please try other sources.

Author: Farrell

Publication Info: Cengage

ISBN: 9781285096339

Book Title: APUS does not supply this software. Students must have access to the required software. The listing can be found at http://apus.libguides.com/bookstore

Author: N/A

Publication Info: N/A

ISBN: N/A

Additional references are found in the Lessons Page of the classroom.

Course Guidelines

Citation and Reference Style

- Attention Please: Students will follow the APA Format as the sole citation and reference style used in written work submitted as part of coursework to the University. Assignments completed in a narrative essay or composition format must follow the citation style cited in the APA Format.

Tutoring

- Tutor.com offers online homework help and learning resources by connecting students to certified tutors for one-on-one help. AMU and APU students are eligible for 10 free hours* of tutoring provided by APUS. Tutors are available 24/7 unless otherwise noted. Tutor.com also has a SkillCenter Resource Library offering educational resources, worksheets, videos, websites and career help. Accessing these resources does not count against tutoring hours and is also available 24/7. Please visit the APUS Library and search for 'Tutor' to create an account.

Late Assignments

- Students are expected to submit classroom assignments by the posted due date and to complete the course according to the published class schedule. The due date for each assignment is listed under each Assignment.
- Generally speaking, late work may result in a deduction up to 20% of the grade for each day late, not to exceed 5 days.
- As a working adult I know your time is limited and often out of your control. Faculty may be more flexible if they know ahead of time of any potential late assignments.

Turn It In

- Faculty may require assignments be submitted to Turnitin.com. Turnitin.com will analyze a paper and report instances of potential plagiarism for the student to edit before submitting it for a grade. In some cases professors may require students to use Turnitin.com. This is automatically processed through the Assignments area of the course.

Academic Dishonesty

- Academic Dishonesty incorporates more than plagiarism, which is using the work of others without citation. Academic dishonesty includes any use of content purchased or retrieved from web services such as CourseHero.com. Additionally, allowing your work to be placed on such web services is academic dishonesty, as it is enabling the dishonesty of others. The copy and pasting of content from any web page, without citation as a direct quote, is academic dishonesty. When in doubt, do not copy/paste, and always cite.

Submission Guidelines

- Some assignments may have very specific requirements for formatting (such as font, margins, etc) and submission file type (such as .docx, .pdf, etc) See the assignment instructions for details. In general, standard file types such as those associated with Microsoft Office are preferred, unless otherwise specified.

Disclaimer Statement

- Course content may vary from the outline to meet the needs of this particular group.

Communicating on the Forum

- Forums are the heart of the interaction in this course. The more engaged and lively the exchanges, the more interesting and fun the course will be. Only substantive comments will receive credit. Although there is a final posting time after which the instructor will grade comments, it is not sufficient to wait until the last day to contribute your comments/questions on the forum. The purpose of the forums is to actively participate in an on-going discussion about the assigned content.
- "Substantive" means comments that contribute something new and hopefully important to the discussion. Thus a message that simply says "I agree" is not substantive. A substantive comment contributes a new idea or perspective, a good follow-up question to a point made, offers a response to a question, provides an example or illustration of a key point, points out an inconsistency in an argument, etc.
- As a class, if we run into conflicting view points, we must respect each individual's own opinion. Hateful and hurtful comments towards other individuals, students, groups, peoples, and/or societies will not be tolerated.

University Policies

[Student Handbook](#)

- [Drop/Withdrawal policy](#)

- [Extension Requests](#)

- [Academic Probation](#)

- [Appeals](#)

- [Disability Accommodations](#)

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