triOS COLLEGE
BUSINESS • TECHNOLOGY • HEALTHCARE

Student Course Outline

Course Code: IntC#
Course Name: Introduction to C# and ASP.NET Programming
Course Length: 80 hours
Version: 3.0

Course Description

This course provides thorough coverage of object-oriented programming fundamentals in general, and C# programming fundamentals in particular. Students will examine such topics as multi-threading, XAML, the Windows Presentation Foundation, and dynamic data structures. Moreover, the programming principles learned in C# can be applied to other languages.

Course Learning Objectives

Upon successful completion of this course, students will be able to:

1. Outline the procedures to build console applications
2. Illustrate the use of Web forms
3. Identify the essentials of server side development
4. Use ASP.NET technology and C# technology in the development of strategies for solving problems
5. Develop solutions to programming problems using pseudo code
6. Create web applications using C# and ASP.NET

Materials and Resources

Textbook	**Textbook 1**: C# Programming: From Problem Analysis to Program Design, 5th Edition (Doyle/Nelson) **Textbook 2:** Beginning ASP.NET for Visual Studio 2015 (Penberthy/Wiley)
Software	Visual Studio 2015 IIS

Teaching Methods

Lecture	Lectures are based upon demonstration, and practical use of course skills. Lectures should go beyond simple re-iteration of the text/slides; make sure to contextualize the information for the students by providing various examples in either verbal or written form. The topics and outcomes
Lab	Textbook (or other) exercises that give students practice with the course concepts.

Course Evaluation		Portion of Grade
Final Project	Throughout the course, students will be expected to develop a complete ASP.net web site that will be added to their portfolio. Initial deliverable for the web site would be a prototype or a wireframe; however, students are not required to complete a prototype or wireframe for this course. Alternatively, if the student is taking IntC# as a first/second course, use the projects located at the end of the text book as they are more skill appropriate.	**60%**
Final Exam	On the final day of class, students will write a 4-hour final exam that will encompass all course material, lecture content, and topics discussed throughout the course. The exam will contain practical and case-based critical thinking questions.	**30%**
Professional Performance	Professional performance assesses students on their ability to conduct themselves according to the standards of the profession. In this course that includes attendance, punctuality, participation in class, and completion of all assignments & class preparation	**10%**

Evaluation Scale					
A	100 – 90 %	**B**	89 – 80 %	**C**	79 – 70 %
D	69 – 60 %	**F**	59 – 0 %		

- Students who miss tests or a final project submission due to medical reasons and can provide a doctor's note will be given a chance for resubmission at a later date to be determined.
- The consequence for submitting a plagiarized, purchased, or in any manner inappropriately negotiated or falsified test, project, or any evaluated material is a grade of zero on the material.

Daily Plan at a Glance (Week 1)					
	DAY 1	**DAY 2**	**DAY 3**	**DAY 4**	**DAY 5**
Topics	• Introduction to Computing and Programming • Data Types and Expressions	• Methods, Behaviors and Classes	• Decisions	• Loops and Repetitions	• Arrays / Collections
Activities	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype
Reading	**Textbook 1:** Ch. 1 – 2	**Textbook 1:** Ch. 3 - 4	**Textbook 1**: Ch. 5	**Textbook 1**: Ch. 6	**Textbook 1**: Ch. 7 - 8

Daily Plan at a Glance cont. (Week 2)					
	DAY 6	**DAY 7**	**DAY 8**	**DAY 9**	**DAY 10**
Topics	• Windows Programming	• Events	• Object Oriented Programming	• Debugging / File Handling	• LINQ / ADO.Net
Activities	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development
Reading	**Textbook 1:** Ch. 9	**Textbook 1:** Ch. 10	**Textbook 1**: Ch. 11	**Textbook 1**: Ch. 12-13	**Textbook 1**: Ch. 14

Daily Plan at a Glance (Week 3)					
	DAY 11	**DAY 12**	**DAY 13**	**DAY 14**	**DAY 15**
Topics	• Introduction to ASP.net	• Web Page Design	• ASP.Net Server Controls	• ASP.Net MVC	• Navigation
Activities	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Application Concept & Prototype	• Lab exercises • Project: Start Application Development	• Lab exercises • Project: Application Development
Reading	**Textbook 2:** Ch. 1 – 2	**Textbook 2:** Ch. 3	**Textbook 2**: Ch. 5	**Textbook 2**: Ch. 6	**Textbook 2**: Ch. 7 - 8

Daily Plan at a Glance cont. (Week 4)					
	DAY 16	**DAY 17**	**DAY 18**	**DAY 19**	**DAY 20**
Topics	• Working with Data	• User Controls	• Validation	• AJAX / JQuery	**Final Exam** **Submit Final Project**
Activities	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	• Lab exercises • Project: Application Development	
Reading	**Textbook 2:** Ch. 9-10	**Textbook 2:** Ch. 11	**Textbook 2**: Ch. 12	**Textbook 1**: Ch. 13,14	