

IT 330 User Interface Development for Interactive Systems - Syllabus (Spring 2020/2021)

Location:	Online via D2L
Instructor	Anthony Zoko
Office Hours	By Appointment on Zoom
Email	azoko@cdm.depaul.edu
Homepage	https://d2l.depaul.edu
Last updated	3/12/2021 V1

Office Hours: By appointment. Try to email me one day in advance.

Course Description:

Official: Graphical user interface development for web and desktop applications. Event-driven user controls. Development involves use of a visual integrated development environment (IDE). Prerequisite: IT 232

Detailed: Application development in C# of Console, Windows Presentation Foundation (WPF), server-side Web applications. The following technologies will be covered: Visual Studio, ASP.NET MVC Core, Entity Framework Core, WPF, XAML, XML/JSON.

Learning Outcomes/Course Objectives:

- Students will be able to build programs in C#
- Students will understand the runtime characteristics of various application types (Console, Web, Desktop, Mobile) and what types of tasks each is most suited for.
- Students will be able create interactive Windows apps (Console, MVC, WPF, Windows 10)
- Students will be able to use Visual Studio

By the end of the course, each student will understand and be able to apply the central concepts listed in the learning objectives column of the Week-by-Week schedule.

Software

Visual Studio 2019 Enterprise – you can get the software for free using Microsoft Azure Dev Tools for Teaching <https://www.cdm.depaul.edu/Student-Resources/Pages/Software.aspx> .

Students who can't run Visual Studio 2019 may use Visual Studio Code for Console and Web Applications. All students must use Visual Studio 2019 for WPF applications, which is available through DePaul Virtual Labs. Visual Studio Code will not be covered in Lectures.

[IS Support - DePaul Virtual Lab: Windows Virtual Desktop Frequently Asked Questions \(service-now.com\)](http://service-now.com)

Please install all the latest updates.

Textbooks

.NET Core is not covered in the textbooks. We will discuss those topics through articles and class notes.

Status	Author	Title	Publisher	Date
Required	Dino Esposito	Programming Microsoft ASP.NET MVC 3 rd Edition	Microsoft Press ISBN-13: 978-0735680944	2014
Required e-book available for free	Perkins et al	Beginning C# 7 Programming with Visual Studio 2017	Wrox ISBN 13: 978-1-119-45866-1	2018

Beginning C# is available as a free e-book here: [https://proquestcombo-safaribooksonline-com.ezproxy.depaul.edu/book/programming/csharp/9781119458685/beginning-csharp-7-programming-with-visual-studio-2017/copyright_xhtml?query=\(\(beginning+c%23\)\)#snippet](https://proquestcombo-safaribooksonline-com.ezproxy.depaul.edu/book/programming/csharp/9781119458685/beginning-csharp-7-programming-with-visual-studio-2017/copyright_xhtml?query=((beginning+c%23))#snippet)

Week-by-Week Schedule:

This class meets Mondays and Wednesdays.

Date	Lecture Topic and Textbook Chapter	Reading	Due at Start of Class
Week 1, March 29th	Intro to .NET and Visual Studio, Console Applications, C# Language. Resources for reviewing HTML and CSS.	Chapters: 1-5 (Perkins)	None.
Week 2, April 5th	Review more console examples (Light Lecture) Friday April 9th: Last Day to Drop with no penalty.		
Week 3, April 12th	Principles for User Interface Design, WPF Applications, Event Driven Programming	Chapters: 14-15 (Perkins)	Assignment 1
Week 4, April 19th	Review more WPF Examples (Light Lecture)		
Week 5, April 26 th	April 26th: More C#, Classes, Arrays, Collections.	Chapters 9-12 (Perkins)	Assignment 2 Due
Week 6, May 3rd	Intro to ASP.NET MVC and Server-side applications.	Reading: Esposito: Chapters 1 and 2	MIDTERM DUE
Week 7, May 10th	MVC Continued (Light Lecture) Friday May 14th, Last Day to withdraw	Reading: Esposito: Chapters 3 and 4	
Week 8, May 17th	Entity Framework.	Chapters 22-23 (Perkins)	Assignment 3 Due Final Project Assigned
Week 9, May 24th	More Entity Framework (Light lecture)	Chapters 21 (Perkins)	

Week 10, May 31st	Week 10. Managing State, Website Security No Class Monday May 31st: Memorial Day. A lecture will be provided on Panopto to supplement.	Reading: Esposito: Chapters 5 and 6	Assignment 4 Due
Week 11, June 7th	No Class		Final Project Due

Note: The syllabus (including weekly schedule) is subject to changes in order to better meet student needs. If this occurs, the changes will be announced during class.

Grading Policy:

Grading Scale: 94-100: A; 89-93: A-; 85-88: B+; 80-84: B; 75-79: B-; 70-74: C+; 65-69: C; 60-64: C-; 55-59: D+; 50-54: D; 0-49: F.

Grading Breakdown: Midterm: 25%, Final Project: 25%, Assignments: 50%

Late assignments are not accepted.

Attendance

Every student in the class is required and responsible to attend every class. If a student misses a class without officially acceptable excuses such as a serious illness, the instructor has no responsibility to make up any missing lab sessions and lectures for him or her.

Incomplete

An incomplete grade is given only for an exceptional reason such as a death in the family, a serious illness, etc. Any such reason must be documented. Any incomplete request must be made at least two weeks before the final, and approved by the Dean of the College of Computing and Digital Media. Any consequences resulting from a poor grade for the course will not be considered as valid reasons for such a request.

Other Requirements

All students are responsible to check the course Web page frequently for various announcements, weekly topics, assignments and the due dates. Students responsible for following changes in the Syllabus.

Internet Policy

No student may transmit or make available any material on the Internet that contains profanity, vulgarity, or offensive information or images. This includes e-mail as well as documents and images on the World-Wide Web. In addition, all student Web documents may not contain links to other Websites that contain profanity, vulgarity, or offensive information or images.

Students are responsible for clearly clarifying that their Web pages are purely educational and that no one should ever treat them as real commercial Web sites and submit credit card information to them.

Students are responsible for the contents of their Web pages.

Changes to Syllabus

This syllabus is subject to change as necessary during the quarter. If a change occurs, it will be thoroughly addressed during class, posted under Announcements in D2L and sent via email.

Online Course Evaluations

Evaluations are a way for students to provide valuable feedback regarding their instructor and the course. Detailed feedback will enable the instructor to continuously tailor teaching methods and course content to meet the learning goals of the course and the academic needs of the students. They are a requirement of the course and are key to continue to provide you with the highest quality of teaching. The evaluations are anonymous; the instructor and administration do not track who entered what responses. A program is used to check if the student completed the evaluations, but the evaluation is completely separate from the student's identity. Since 100% participation is our goal, students are sent periodic reminders over three weeks. Students do not receive reminders once they complete the evaluation. Students complete the evaluation online in [CampusConnect](#).

Academic Integrity and Plagiarism

This course will be subject to the university's academic integrity policy. More information can be found at <http://academicintegrity.depaul.edu/>. If you have any questions be sure to consult with your professor.

Academic Policies

All students are required to manage their class schedules each term in accordance with the deadlines for enrolling and withdrawing as indicated in the [University Academic Calendar](#). Information on enrollment, withdrawal, grading and incompletes can be

found at: cdm.depaul.edu/enrollment.

Students with Disabilities

Students who feel they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss their specific needs. All discussions will remain confidential.

To ensure that you receive the most appropriate accommodation based on your needs, contact the instructor as early as possible in the quarter (preferably within the first week of class), and make sure that you have contacted the Center for Students with Disabilities (CSD) at:

Lewis Center 1420, 25 East Jackson Blvd.

Phone number: (312)362-8002

Fax: (312)362-6544

TTY: (773)325.7296