IT 330 User Interface Development for Interactive Systems - Syllabus (Spring 2022/2023)

Location:	Online
Instructor	Anthony Zoko
Office Hours	By Appointment on Zoom
Email	azoko@cdm.depaul.edu
Homepage	https://d2l.depaul.edu
Last updated	3/16/2023 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 2022 Enterprise (Visual Studio 2019 okay) – 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)

Please install all the latest updates.

We will be using .NET 6 in this class to keep compatibility with the CDM Lab environment. Students who need to use the Virtual Lab Environment may use .NET 5.

Textbooks

WPF is not covered in the textbook. We will discuss that topic through articles and class notes.

Status	Author	Title	Publisher	Date
Required e-book available for free	Nigel,Christian	Professional C# and .NET, 2021 Edition	Wrox Press ISBN 13: 9781119797203	2021

Free e-book available here: https://learning.oreilly.com/library/view/professional-c-and/9781119797203

Week-by-Week Schedule:

This class is recorded. Lectures will be available by Monday at 6pm each week via Panopto.

Students are required to watch lectures, read notes and book chapters each week.

Date	Lecture Topic and Textbook Chapter	Reading	Due at Start of Class
Week 1, March 27th	Intro to .NET and Visual Studio, Console Applications, C# Language. Resources for reviewing HTML and CSS.	Chapters: 1 & 2 Class Notes	Course Survey and Agreement on D2L.
Week 2, April 3rd	Review more console examples (Light Lecture) **Friday April 10th: Last Day to Drop with no penalty.**	Chapters 3,4 and 5 Class Notes	
Week 3, April 10th	Principles for User Interface Design, WPF Applications, Event Driven Programming	Chapter 7 Class Notes will be used primarily	Assignment 1 Due
Week 4, April 17th	Review more WPF Examples (Light Lecture)	Class Notes	
Week 5, April 24th	April 26th: More C#, Classes, Arrays, Collections.	Chapters 6 & 8 Class notes	Assignment 2 Due
Week 6, May 1st	Intro to ASP.NET MVC and Server-side applications.	Reading: Chapter 24 & 26 Class Notes	**MIDTERM DUE**
Week 7, May 8th	MVC Continued (Light Lecture) **Friday May 12th, Last Day to withdraw**	Reading: Class Notes	
Week 8, May 15th	Entity Framework.	Chapters Chapter 9 and 21 Class Notes	Assignment 3 Due

Week 9, May 22nd	More Entity Framework (Light lecture)	Class Notes	
Week 10, May 29th	Week 10. Managing State, Website Security, Looking Ahead **Online Course Evaluations Due**	Class Notes	Assignment 4 Due
Week 11, June 5th	No Class		Final 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: 25%, Assignments: 50%. No credit for the course will be given if the student doesn't complete the Course Survey and Agreement on D2L.

Late assignments are not accepted unless otherwise stated on assignment criteria.

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 them.

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