

EE 356/CS 376
Syllabus

Fall 2018/19
Blandford/Randall

Web site: <http://csserver.evansville.edu/~blandfor>

Textbook: Petzold, Charles, Programming Windows, 6th edition, Microsoft Press, 2013.

References:

1. Liberty, Jesse, Japikse, Philip, and Galloway, Jon, Pro Windows 8.1 Development with XAML and C#, APress, 2014
2. Nathan, Adam, Windows 8.1 Apps with XAML and C# Unleashed, Pearson, 2014

Software:

1. Visual Studio 2017, Microsoft Corporation.

Hardware:

Hardware will be furnished in class as needed.

This class will have no hour exams, no quizzes, and no final exam. Each student will be required to complete 7 projects in C#. Most projects will be done on an individual basis – one or two may be done on a team basis depending on the project complexity. Each project will require the following documentation:

1. Cover sheet with name, assignment number, date turned in.
2. Instructor signed verification sheet.
3. Project summary – this consists of:
 - A) A paragraph or two explaining what the project is about.
 - B) A list of specification
 - C) A summary of your results indicating how well you project met specifications.
4. Complete commented source code.

Seventy percent of the project grade will be based on how well the project worked and met specifications. The remaining 30% will be based on the documentation and the report. The course grade will be the average grade of all of the projects. Projects not turned in by the due date will be penalized by 1 letter grade and no project will be accepted more than one-week late.

Projects:

No.	Title	Assigned	Due	Comments
1	ASCII Art	Aug. 23	Sept 5	
2	MATLAB and C#	Sept. 7	Sept. 17	
3	Hour glass	Sept. 19	Oct. 1	
4	Gold Button	Oct. 3	Oct. 15	
5		Oct. 17	Oct. 29	
6		Oct. 31	Nov. 12	
7		Nov. 14	Dec 5	

EE 356

Fall 2017/18

Monday	Wednesday	Friday
	Aug. 24 Intro to C# Project 1 Intro	Aug. 26 WPF Graphics
Aug. 28 WPF Graphics	Aug 30 WPF Graphics	Sept. 1 <i>Project work day</i>
Sept. 4 Labor Day	Sept. 6 Project 1 Due	Sept. 8 Project 2 Intro
Sept. 11 <i>Project work day</i>	Sept. 13 <i>Project work day</i>	Sept. 15 <i>Project work day</i>
Sept. 18 Project 2 Due	Sept. 20 Project 3 Intro	Sept. 22 <i>Project work day</i>
Sept. 25 <i>Project work day</i>	Sept. 27 <i>Project work day</i>	Sept. 29 <i>Project work day</i>
Oct. 2 Project 3 Due	Oct. 4 Project 4 intro	Oct. 6 <i>Project work day</i>
Oct. 9 Fall Break	Oct. 11 <i>Project work day</i>	Oct. 13 <i>Project work day</i>
Oct. 16 Project 4 Due	Oct. 18 Project 5 intro	Oct. 20 <i>Project work day</i>
Oct. 23 Notes System.NET.sockets	Oct. 25 <i>Project work day</i>	Oct. 27 <i>Project work day</i>
Oct. 30 Project 5 Due	Nov. 1 <i>Project 6 intro</i>	Nov. 3 <i>Project work day</i>
Nov. 6 <i>Project work day</i>	Nov. 8 <i>Project work day</i>	Nov. 10 <i>Project work day</i> (Last day to withdraw with W)
Nov. 13 Project 6 Due	Nov. 15 <i>Project 7 Intro</i>	Nov. 17 <i>Project work day</i>
Nov. 20 Notes <i>Project work day</i>	Nov. 22 Thanksgiving Break	Nov. 24 Thanksgiving Break
Nov. 27 Notes <i>Project work day</i>	Nov. 29 <i>Project work day</i>	Dec. 1 <i>Project work day</i>
Dec. 4 <i>Project work day</i>	Dec. 6 Project 7 Due	

EE 356 Syllabus Supplement

Catalog Description EE 356 Small Computer Software (3) Introduction to the graphical user interface provided by the Windows™ operating system using C#.NET. Topics include the console applications, windows forms, Windows Presentation Foundation, graphics, ASP.NET web forms, ADO.NET, TCP/IP connection between computers, and dynamic-link libraries (DLLs) and/or device drivers. Prerequisites: Engineering 123 or Computer Science 210; Electrical Engineering 254 or Computer Science 220.

Credit Hour Policy This course meets the federal requirements of 15 in-class hours plus an expected 30 hours of out-of-class work per credit hour over a semester. (At least 135 hours total; 9 per week)

Time & Place EE 356 meets Monday, Wednesday, and Friday at 1:00 PM in Koch Center 136

Course Objectives Statement

The objective of this course is to teach students to solve hardware/software problems using Windows based software.

Course outcomes by program outcome

- 1a. Students will use math and science to solve problems in their major field of study. (ABET a)
Students will be able to write Windows programs involving
 - C#.NET console and Form applications
 - C# .NET WPF applications
 - elementary graphics
 - DLLs and/or device drivers
 - Socket programing
 - C#.NET Smart Device Application (typically a Windows phone App)
- 1b. Students will be able to apply the concepts of their field of study to formulate problems and identify creative solutions. (ABET e)
Students will complete seven C# programs that function to assigned specifications.
- 1c. Students will have mastered the skills and tools of their profession. (ABET k)
The use of Microsoft Visual Studio.NET is required for assigned projects.
At least one program will require the use of Windows Forms in .NET
At least two programs will require the use of Windows WPF in .NET
- 2b. Students will be able to determine the requirements of an "open-ended" problem statement, complete a design and implementation to fulfill those requirements, and evaluate the effectiveness of the design. (ABET c)
All projects are "open-ended." Students are given only specifications for final output.

Homework There are 7 homework projects with one due approximately every two weeks. All projects require a program in either C# WPF. Assignments will differ as to what is to be turned in and what is the due date. This information will be placed on the assignment sheet.

Attendance Policy You are expected to attend all class sessions. Absences may adversely affect your grade.

Office Hours

Revised: May 3, 2018

Dr. Blandford's office is Koch Center 266, Campus phone is 2291. He will usually be in his office from 7:00 to 10:00 AM.

Mr. Randall's office is Koch Center 2XX, Campus phone is 2498. He will usually be in his office from 8 to 9 AM on MW and from 10 to noon on MW.

Disability Policy It is the policy and practice of the University of Evansville to make reasonable accommodations for students with properly documented disabilities. Students should contact the Office of Counseling and Health Education at 488-2663 to seek services or accommodations for disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for academic accommodations.

Honor code This course will be governed by the University of Evansville Honor Code, which is

I will neither give nor receive unauthorized aid, nor will I tolerate an environment that condones the use of unauthorized aid

This code has two fundamental expectations:

- Students will submit as their own work only those items that are indeed their own work
- Students will hold each other responsible for adhering to the Code