

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

Dr. Blandford's office is Koch Center 266, Campus phone is 2201. He will usually be in his office from 7:00 to 9:00 AM and 10:00-11:00 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