

## Engr 123 Syllabus Supplement

**Catalog Description** Introduction to structured programming of computers in a modern high level language. Students complete programming projects that include loop and branch constructs, the use of subprograms, algorithm design, arrays, debugging software and techniques, file I/O, and class constructs. Spring.

**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** Engr 123 meets Tuesday and Thursday from 8:00AM to 10:00Am in Koch Center 267

### Course Objectives Statement

The objective of this course is to teach students to solve computational problems using structured top-down design, functional decomposition, and abstraction techniques. Each student will complete weekly programming assignments in an appropriate high-level language and several larger programming projects

### Course outcomes by program outcome

- 1a. Students will use math and science to solve problems in their major field of study.  
Students will have a basic understanding of C# (1a ABET a)
- 1b. Students will be able to apply the concepts of their field of study to formulate problems and identify creative solutions.  
Students will be able to solve basic problems using knowledge gained in the C# language.  
(1b ABET e)
- 1c. Students will have mastered the skills and tools of their profession.  
All students will demonstrate a working familiarity with the Microsoft Visual Studio programming and debugging environment. (1c ABET k)
- 2c. *Students will be able to communicate effectively both orally and in writing.*
  - Students will write complete explanations of computer architecture concepts in a clear and effective manner.
  - Students will complete a formal term paper on a computer architecture topic.
  - All students will demonstrate an ability to orally explain topics in computer architecture in a clear and effective manner.
- 3b. *Graduates will be cognizant of contemporary issues.*
  - Students will be introduced to contemporary professional issues.
  - Students will complete a term paper on a contemporary professional issue related to computer architecture.

**Homework** Problems will be assigned daily. Assignments are posted on the website.

**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 8:00 AM and 2:00-3:00 PM on MWF and from 7:00 to 10:00AM on TT.

**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