

EGR 261 Structured Programming in C – Winter 2012

Course Description

An introduction to structured and modular software problem solving using C. Numerous programming assignments develop the practical skills necessary to ensure students are capable of writing, testing, debugging, and validating programs. Basic concepts in numerical methods techniques are introduced through assigned programming problems.

Course Web Page

Students are responsible for all information posted on the course web page:
<http://www.cis.gvsu.edu/~kalafuta/egr261>

Instructor

Dr. Andrew Kalafut

Downtown Office: 359 KEN

Downtown Office Hours: MT 5:00 PM - 6:00 PM

Allendale Office: C-2-210 MAK

Allendale Office Hours: MWF 1:00 PM - 2:00 PM

Telephone: 331-2309

Email: kalafuta@gvsu.edu

Prerequisites

MTH 201 (may be taken concurrently)

Required Text

Hanly, Jeri R. and Koffman, Elliot B., Problem Solving and Program Design in C (6th Edition) - Addison Wesley, 2009.

Grading

The course grade will consist of 1 final exam (25%), 2 mid-term lecture exams (20%), lab programming exams (25%), homework/lab assignments (15%), and programming project assignments (15%). Within each category, individual items may be weighted differently. Course letter grades will be given according to the following scale:

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| A | A- | B+ | B | B- | C+ | C | C- | D+ | D |
| 93% | 90% | 87% | 83% | 80% | 77% | 73% | 70% | 67% | 63% |

Topics

The following topics will be covered, all in the C programming language:

- data types, variables
- arithmetic operators, expressions
- formatting output, input
- logical operators
- selection/choice and repetition
- debugging, testing, and validation
- coding style
- arrays of data
- writing functions and macros
- pointers
- modularization
- structures

Policies

Assignments: Assignments are to be turned in, in hard copy unless otherwise specified, at the start of class on the due date. No assignment submissions will be accepted by email.

Academic Honesty: All exams are to be completed individually. Assignments may allow group work as specified in the assignment. In this class, most assignments will allow work in groups of two. All outside resources used, including Internet sources, must be cited. It is never acceptable to post any part of the homework or project questions online asking for help. No academic dishonesty will be tolerated. Consequences will include the most severe penalty allowed by GVSU policy. Please read the CIS honesty policy at <http://www.cis.gvsu.edu/Academics/Honesty> and the EGR honesty policy at http://www.gvsu.edu/cms3/assets/D99BCCB5-C75C-EB2A-881DA32E9802E74F/PDFs/Honor_Code.pdf

Late work: You may turn in any assignment up to two days late at a 10% per day penalty. No points will be awarded for work turned in more than two days late, unless sufficient reason for the delay is provided in advance of the due date. Work turned in on the due date is still late if not turned in by the start of class.

Grade disputes: Grades will be posted on blackboard. Any questions regarding posted grades must be raised within 7 days of the grade posting date.

Attendance: Attendance is expected. Non-attendance will be detrimental to your understanding of the course material. Students not present for an exam will receive a grade of 0 for that exam, unless sufficient reason is provided in advance for the absence.

Special Needs: If you need academic accommodations because of a learning, physical, or other disability, please contact Disability Support Services (DSS) at 331-2490. Furthermore, if you have a physical disability and think you will need assistance evacuating this classroom and/or building in an emergency situation, please make me aware so I can develop a plan to assist you.