

# CIS 361 System Programming – Summer 2016

## Course Description

The C programming language is taught in the context of the UNIX operating system. Coverage: functions, variable scope, control structures, pointers, arrays, program organization, structures, standard C library, memory allocation, signals, inter-process communication, and UNIX system calls. UNIX utilities and software development tools are used throughout the course.

## Meeting Times

Tuesday and Thursday 2:00 - 3:30PM in Eberhard Center 612.

## Course Web Page

Students are responsible for all information posted on the course web page:

<http://www.cis.gvsu.edu/~kalafuta/cis361>

Additionally, Blackboard will be used for posting of grades and electronic submission of projects when required.

## Instructor

Dr. Andrew Kalafut

**Office Hours:** TR 3:30 - 4:30 PM

**Office:** EC618

**Email:** kalafuta@gvsu.edu

## Prerequisites

CIS 163 and CIS minor standing or admitted to CIS major or EGR major standing.

## Required Text

King, K.N., C Programming; A Modern Approach (2nd edition) - Norton 2008.

## Grading

The course grade will be determined approximately as follows: final exam (25%), mid-term exam (25%), homework (30%), projects (20%). Course letter grades will be determined according to the following scale:

A	A-	B+	B	B-	C+	C	C-	D+	D
93%	90%	87%	83%	80%	77%	73%	70%	67%	60%

## Topics

The course will be structured approximately as follows. This schedule is subject to change depending on topic interest and speed of coverage. Students are expected to frequently check the more detailed schedule posted on the course web page.

Week	Topic
May 10, 12	Introduction, C I/O, Compiling
May 17, 19	Unix shell basics, editors
May 24, 26	Types, operators, control flow
May 31, Jun 1	Program Organization
Jun 7, 9	Source Control, Make, debugging
Jun 14, 16	Pointers
Jun 21, 23	Midterm, Catch Up
Jun 28, 30	Preprocessor
Jul 5, 7	Structures
Jul 12, 14	Libraries and System Calls
Jul 19, 21	Shell Programming
Jul 26, 28	Sed/Awk
Aug 2, 4	Other useful utilities
Aug 9	Final Exam

## Policies and Expectations

### Assignments/Projects:

Assignments and Projects are due at the start of class on the due date. Some assignments or projects may require a demonstration. Failure to demonstrate a project will result in a grade of a 0 for that project.

### Late work:

No points will be awarded for work turned in late, unless arrangements are made, for sufficient reason, in advance of the due date.

### Exams:

The date of exams will be provided at least a week in advance. Additionally, you will be given time in class to ask questions for review. Exams in this course will be closed book. A small amount of notes may be allowed at the discretion of the instructor. Exams must be taken on the specified date and time, they will not be rescheduled except in emergencies.

### Academic honesty:

All exams are to be completed individually. Lab assignments may or may not allow group work as specified in the assignment. All outside resources used, including Internet sources, must be cited. It is never acceptable to post any part of any assignment or project 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/academic-honesty>

### Special needs:

If you need academic accommodations because of a learning, physical, or other disability, please contact Disability Support Resources (DSR) 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.