COP 3514 Program Design

Summer C 2013
MWF 2:00 – 3:15 pm
BSN 1201

Instructor: Ivan Shindev
ENB 325
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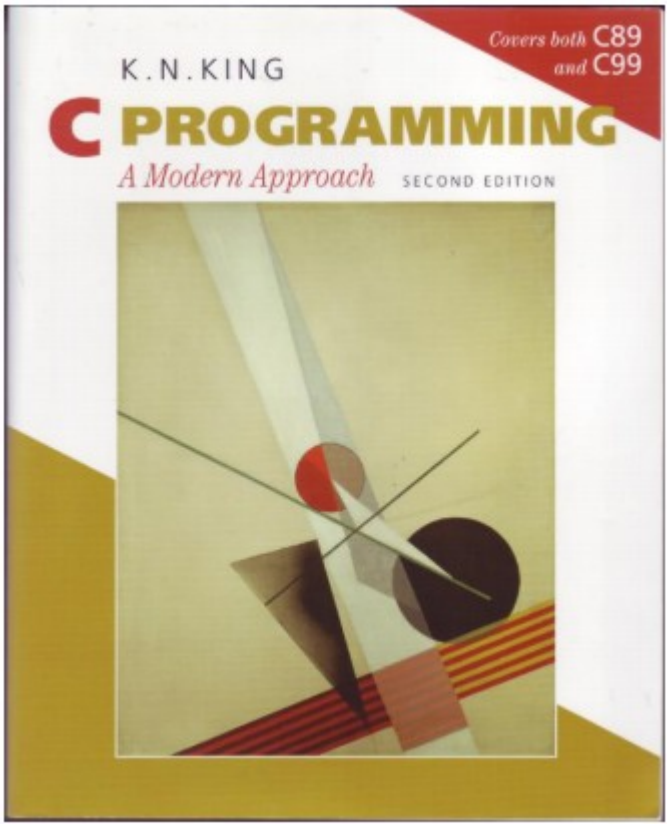
Office Hours:
MWF 10:00-12:00pm
or by an appointment

Textbook: C Programming, A Modern Introduction. Second Edition
Author: K.N. King
W.W. Norton & Company, 2008
ISBN 978-0-393-97950-3 (pbk.)



Textbook's website:
http://www.knking.com/books/c2/

Course Objectives:

You will learn to:

- Write C programs using efficient program design and guidelines
- Read C programs of moderate size and complexity
- Compile, test and run C program in a Unix environment
- Design different functions and modules and use them to design programs
- Use pointers correctly as function parameters and data structure elements
- Use dynamic memory allocation
- Understand common programming errors in C
- Detect and handle program errors in C
- Design effective test suites for programs and functions

Grading:

Three Exams 60%
Six Assignments 40%

90 – 100 A
80 – 89 B
70 – 79 C
60 – 69 D
< 60 F

- There will be a final exam which will be optional. It will be used to replace the lowest grade of the three regular exams.

- Exams missed must be made up, written documentation required.

COURSE SCHEDULE (*tentative*)

Week	Dates	Topics	Due
1	5/13 5/15 5/17	Fundamental concepts Selection statements Switch statements	
2	5/20 5/22 5/24	Loops Using numeric types Type char	***Assignment 1***
3	5/27 5/29 5/31	*Memorial Day (no classes)* Arrays Functions	***Assignment 2***
4	6/3 6/5 6/7	**Exam 1** Arrays as function parameters Recursion	
5	6/10 6/12 6/14	Structures Program organization Program design	***Assignment 3***
6	6/17 6/19 6/21	Pointers Pointers as function arguments Pointers of a structure	***Assignment 4***
7	6/24 6/26 6/28	**Exam 2** String Preprocessor	
8	7/1 7/3 7/5	File input and output Dynamic memory allocation Linked lists	***Assignment 5***
9	7/8 7/10 7/12	Stacks Designing large programs1 **Exam 3**	
10	7/15 7/17 7/19	Designing large problems2 Final review **Final (optional)**	***Assignment 6***

Course Policies:

Assignments:

- You may not work with another student on an assignment.
- You may discuss general concepts regarding an assignment with other students, you may **NOT** exchange code or talk in code. **Each assignment will be ran through a plagiarism detection software!**

- Don't copy anyone else's work.
- Don't let anyone copy your work.
- Be sure your files are read protected.
- Assignments must be submitted on time.
- Late assignments will not be accepted.

If your assignment does not compile see me ASAP. Assignments that do not compile will not be graded.

Communication:

Communication will be done via Blackboard and your USF primary email.
Please check your email and the announcement section on Blackboard frequently.

VERY IMPORTANT!
All assignment submissions will be done only through Blackboard.

Attendance:

I will not take class attendance after the first day of classes. I highly recommend attending the lectures as problems related to the exams and the assignments will be discussed.

University Policies:

Procedures for Alleged Academic Dishonesty or Disruption Of Academic Process

See current undergraduate catalog:
http://www.ugs.usf.edu/catalogs/0809/adadap.htm

The Associate Provost, Policy Analysis, Planning, and Performance has asked all faculty to include the following statement in their syllabi:

In the event of an emergency, it may be necessary for USF to suspend normal operations. During this time, USF may opt to continue delivery of instruction through methods that include but are not limited to: Blackboard, Elluminate, Skype, and email messaging and/or an alternate schedule. It's the responsibility of the student to monitor Blackboard site for each class for course specific communication, and the main USF, College, and department websites, emails, and MoBull messages for important general information.

Department Policies

All students enrolled in courses taught by the Computer Science and Engineering Department are advised that unless an instructor specifies otherwise, all work done in homework, programming, or exams must be the result of a student's individual effort.

Students who copy, or who provide material for others, or who show dishonesty in their work as described in the university catalog, will be subject to disciplinary action, typically the receipt of a failing grade in the course, but also possible academic dismissal from the program.

Accommodation

Disabilities

- Students with disabilities are encouraged to consult me as soon as possible. If accommodations are needed, a letter from the Office of Student Disability Services will be required. Please inform me if there is a need for alternate format for documents or a note taker.

Religious Observances

- Students who anticipate the necessity of being absent from class due to a major religious observance must provide notice of the date (or dates) to me, in writing, by the second class meeting.

Athletic Events

- Students who must miss an exam due to participating in a varsity athletic event should contact me two weeks in advance in order to make alternative arrangements.