CSC215 Lecture

Orientation

Course Information Objectives

- Student can compare and contrast Procedural and Object-oriented programming
- Student understands the function call mechanism in procedural programming
- Student can define types in the C programming language
- Student understands the memory management in procedural programming
- Student can manipulate pointers to achieve different tasks
- Student can write and debug procedural programs

Course Information Topics and Calendar

2	Types, Operators, and Expressions	MT1	MT2	FE
3	Control Flow	MT1	MT2	FE
4	Functions and Program Structure	MT1	MT2	FE
5	Pointers and Arrays	MT1	MT2	FE
6	Memory Management	MT1	MT2	FE
8	User Defined Data Types		MT2	FE
9	Input and Output		MT2	FE
10	Standard Library		MT2	FE
12	Advanced Pointers			FE
13	Linked Lists and Data Structures			FE
14	Advanced Topics			FE

Course Information Assessment

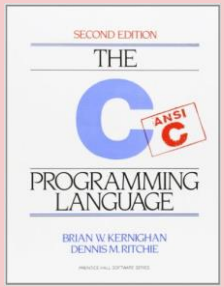
Name	Procedural Programming
Code	CSC215
Credits	3 hours
Style (weekly)	2H Lecture (Su and Tu) 2H Lab (Mo or We)
Grade	100

Participation & Quizzes (6)	Pop quizzes	5
Assignments (12)	Due on Friday	5
Midterm 1		10
Midterm 2		10
Lab		30
Final Exam		40

- Home assignments are given on Tuesdays and returned by Fridays.
- Quizzes can happen anytime, so be always ready.
- KSU's Learning Management System will be used to host all course materials, so make sure that you have an account o it and have access to the course pages: http://lms.ksu.edu.sa

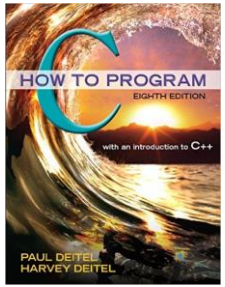
Course Information Textbook

Textbooks, any of the following books:



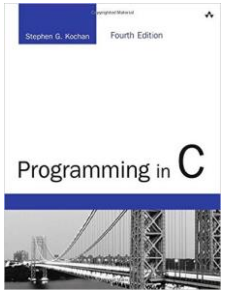
The C Programming Language

Brian W. Kernighan & Dennis M. Ritchie
2nd edition, Prentice Hall



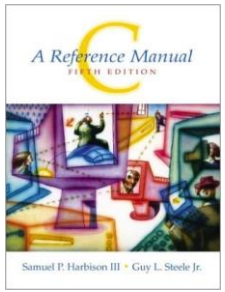
C How to Program

Paul Deitel & Harvey Deitel
8th edition, Pearson



Programming in C

Stephen G. Kochan
4th edition, Addison-Wesley Professional

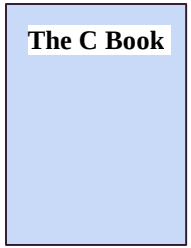


C: A Reference Manual

Samuel P. Harbison & Guy L. Steele Jr.
5th edition, Pearson

Course Information References

Free books and references:

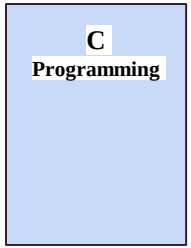


The C Book

an online version of the popular introduction and reference on the ANSI Standard C programming language

GBDirect Publications

http://publications.gbdirect.co.uk/c_book/



C Programming

WikiBook

http://en.wikibooks.org/wiki/C_Programming

Frequently Asked Questions

comp.lang.c

http://c-faq.com/

Course Information Tools

- In lab:
  -  Linux (CentOS)
  -  Terminal
  -  emacs
  -  GCC
- On your machine:
  -  Windows: CMD, notepad (or any other editor) and GCC through **MinGW** or **Cygwin**
  -  Linux and OSX: same as in the lab: terminal, emacs (or any other editor) and GCC
- Online:
  - www.codechef.com/ide: quick, single file
  - www.tutorialspoint.com/compile_c_online.php

Instructor's Information

Lectures & Lab

Name	Ahmad J. AlShibli
Email	alshibli+csc215@ccis.edu.sa
Office	Bld. 31 Rm 2184
Office Tel.	+966 11 4695209
Office hours	Su Tu 08:00-09:00 (OH) 10:00-11:00 (OH) We 11:00-12:00 (**A**OH)

Name	Ameur Touir
Email	touir@ksu.edu.sa
Office	Bld. 31 Rm 2158
Office Tel.	+966 11 4695209

How To Study CSC215

- **Review CSC111, CSC113 thoroughly. You are expected to be mastering all of their topics.**
- **Attend lectures and labs**
  - Arrive on time
  - Pay attention, ask questions and take notes
- **Study what you have learned on the same day**
  - Read slides, notes and optionally the textbook
  - Redo the examples by yourself
  - Apply on a computer
- **Use my office hours. I'm getting paid for them, they are free for you.**
- **Do all of your homework assignments**
  - Spend enough time thinking
  - Implement and run your solutions
  - Submit in a timely manner
- **Look for examples, exercises, problems to solve and previous exams.**
- **Discuss with your colleagues, but never ask for ready solutions, and submit your own work.**

Homework Submission Format

- Please submit all your homework assignments as an attachment to the following email: alshibli+csc215@ccis.edu.sa
- P&P questions can be answered in a text file using notepad, vi, Emacs, MS word etc.
- Programming problems should be solved and submitted in source code as *.c files.
  - Do NOT send executable files
- Please attach only one file. If your homework spans across several files, they should be all compressed into one file.
- The file name should adhere to the following format: csc215-[student's id]-[homework number].[extension]
- These are examples of acceptable file names:
  - csc215-432107134-hw01.txt
  - csc215-431106133-hw02.rar
  - csc215-430105132-hw09.tar
  - csc215-429107134-hw10.zip
  - csc215-432107134-hw12.z7

New Attendance Policy

"**II. With regard to student attendance** (please note the following changes that will be implemented as a college starting this Semester):

1. Anyone with **absence of 25%** or more will be **barred from entering the final** exam
   - **NO EXCEPTIONS** will be made (**even if the student is in his/her final Semester**).
2. **NO medical excuses** should be accepted as a way for deducting the number of absence days
   - (25% of allowed absence in a Semester is actually there for the purpose of such health or other emergency circumstances).
3. A **medical excuse** may **only be used** in the case that a **student misses an exam** (to allow for a make-up exam)
   - however, the absence should still be counted.
4. Please make sure you inform the students about these **absence policies**
   - and that the **college will be very strict** in applying them starting this Semester.
5. Please make sure to give students **continuous updates** and **warnings** about their **absence percentage**.
6. **Attendance is a University requirement**, and as a faculty member, even if you do not think that attendance is important, it is important that you uphold the University policy and take attendance (I recommend reading the names out loud and making sure you see the student answering you, it is a good way to get to know your students - don't just treat your students as numbers).
7. It is also **important to allow students to enter** the classroom, even if they are late to arrive, (the student has the right to learn! Even if he/she gets to hear and participate in the last few minutes of the class, it should be of some value to that student).
8. You may set a **policy that after 15-20 minutes** (as an example) **of being late**, that you will c**onsider the student to be absent** (if you think that will help them be on time). Many times the students may be coming from a different building that is far away, or, may have been held-up by the faculty teaching the previous course."

New Attendance Policy

1.

Download / Install

KSU Students e-Services App

2.

Login to your account

3.

Scan the QR Code

Click the icon: