

Syllabus & Course Content

CIS 170 - 01

Fall 2010

Instructor Information

Instructor: Kimberly Moscardelli

Office: T211D

Email: kimm@hfcc.edu

(Preferred method of contact ~ Allow 48 hours for response)

Phone: (313) 317-1549

Office Hours:

Monday - Thursday

9:00 a.m. - 10:00 a.m.

12:00 p.m. - 1:00 p.m.

3:00 p.m. - 3:30 p.m.

Also by appointment

Catalog Description:

An intermediate-level course familiarizing the student with an interactive text editor and the "C" programming language. These features are taught through detailed lectures and coding laboratory assignments. Students design, code, test and debug programs using the "C" language.

Course Objectives:

(*indicates meets critical thinking outcome)

After successful completion of CIS-170, the student should be able to:

- * Input, compile and execute a C program.
- Identify the primitive data types in C.
- Create arithmetic expressions in C.
- Code and utilize the for, while and do-while
- Code and utilize the different forms of the if
- Code, utilize and manipulate arrays.
- * Code and utilize functions in a C program.
- Code and utilize structures.
- Code, manipulate and utilize character strings.
- * Identify and recognize when to use pointers.
- Demonstrate proficient use of simple preprocessor directives.
- * Identify, code and properly use function invocations by value.
- * Identify, code and properly use function invocations by reference.
- Demonstrate proficient use of the 'C' library facilities
- Explain and demonstrate the proficient use of function prototyping.
- Demonstrate proficient use of 'C' qualifiers (modifiers).

Course Information

'C' Programming

Days/Times:

Monday & Wednesday
1:10 p.m. - 3:00 p.m.

Room: T237

Prerequisites:

CIS 125 or Instructor Permission

Required Text:

Bronson, Gary J. A First Book of ANSI C, 4th ed., Thompson/Course Technology., 2007.

Additional Requirements:

A solid academic work ethic and a will to learn.

*Course Policies
(Classroom Rules)*

Course Information/Notes:

- It is imperative that a student attends class if a student is to receive maximum benefits from this course.
- Assignments are due on the assigned dates.
- Late homework will be penalized according to the following scale:
 - Up to one week late: 20% reduction (minimum 1 point)
 - Up to two weeks late: 40% reduction (minimum 2 points)
- Assignments later than **two weeks** will **not** be accepted.
- If we have a serious, ongoing network failure (more than 1 day in a row), I will adjust due dates accordingly.

Attendance & Tardiness:

You are expected to be in every class session both mentally and physically. Attendance will be taken. A Sign-in Sheet will be provided for attendance and must be signed if you attend class. It is up to you to make sure that you sign the attendance sheet. Telling your instructor that you were in attendance does not constitute as a signature on the sheet. If you miss more than **4** class sessions, your final grade percentage will be lowered by **10 percentage points**. If you miss more than **8** class sessions, your final grade percentage will be lowered by **20 percentage points**. Regular class attendance is necessary if a student is to receive maximum benefits from this course.

Academic Integrity:

Students are expected to uphold the school's standard of conduct relating to academic honesty. Students assume full responsibility for the content and integrity of the academic work they submit. The guiding principle of academic integrity shall be that a student's submitted work, examinations, reports, programs and projects must be that of the student's own work. Students shall be guilty of violating the honor code if they:

1. Represent the work of others as their own.
2. Use or obtain unauthorized assistance in any academic work.
3. Give unauthorized assistance to other students.
4. Modify, without instructor approval, an examination, paper, record, or report for the purpose of obtaining additional credit.
5. Misrepresent the content of submitted work.

The penalty for violating the Academic Dishonesty Policy is severe. Any student violating the policy is subject to receive a failing grade for the course and will be reported to the Office of the Registrar. **If a student is unclear about whether a particular situation may constitute as a violation, the student should meet with the instructor to discuss the situation.**

For this class, it is permissible to assist classmates in general discussions of computing techniques. General advice and interaction are encouraged. Each person, however, must develop his or her own solutions to the assigned projects, assignments, and tasks. In other words, students may not "work together" on graded assignments. Such collaboration constitutes cheating. A student may not use or copy (by any means) another's work (or portions of it) and represent it as his/her own. Although it is tempting to work in groups, you must not cross the line between helping (receiving help from) a classmate and copying his/her work (allowing yours to be copied). Be careful about flash drives and printouts. Please see the Policy on Academic Dishonesty in the College Catalog.

Cell Phones & Texting:

I will show you the respect of giving you my full attention during the class session and I expect the same from you. To that end, the use of a cell phone inside the classroom is strictly prohibited. This includes checking voicemail and text messaging. If you have one, be sure to put it on silent or vibrate so as not to disturb the class. Should your cell phone audibly ring or you are texting during class, I reserve the right to take points away from your overall grade. If you need to take an important call please quietly remove yourself from the room prior to taking the call.

Other Electronic Devices:

Use of MP3 players, and similar devices, including gaming devices, are prohibited in the classroom. The use of notebook or laptop computers during lecture is considered acceptable, **but is prohibited** in the event of a quiz, test or exam. Video recording of lectures is strictly prohibited, however audio recording is acceptable but you must let the instructor know at the beginning of each lecture being recorded.

Lecture and Laboratory Expectations:

You are expected to read the required chapters/sections prior to the lecture. Lectures will discuss the topics, techniques and the highlights of the programs that will be completed in lab. A portion of the class time will be spent working on your programs. Make sure your name and a brief description of the program appear as comments in your program. If a program has multiple sheets, they must be stapled together. I will not accept programs that are not stapled. However, **DO NOT** staple different programs and assignments together.

Computer Rules:

You must follow the posted rules for the computer classrooms and the "Acceptable Use" Policy as established by the college. These are posted in the computer labs, online and in your college catalog/handbook.

Teacher Assistance with Debugging

Assistance outside of class hours may be obtained during my office hours or by appointment. Syntax help will be given immediately, but for complex logic problems, I may require a simple flow diagram, verbal explanation or pseudo code of your logic.

Test Make-up Policy

It is your responsibility to contact me **prior** to the class meeting of a test day if you are unable to take the test. You will be allowed to make up your test at a cost of **10** Reserve points. If you do not have any or enough Reserve points, those points will be deducted from your actual test grade. The test given outside of a normal test day may not be the same and may be considered to be more difficult than the original test.

There may be some pop quizzes. There are **no** make up's available for these. You must be present to take them, however you may use Reserve points.

Incompletes:

You will not be given an incomplete grade in the course without sound reason and documented evidence as described in the College Catalog. In any case, for you to receive an incomplete, you must be passing and must have completed a significant portion of the course. You must notify me in writing that you would like to request an Incomplete grade for the course, and give an explanation why you are requesting the Incomplete grade. I reserve the right to deny the request if the student has not met all of the requirements as described in the College Catalog. Failure to comply will result in the grade you would have otherwise received.

Dropping:

Automatic drop grades are not generally given. To receive a drop (DR) grade you must officially drop the class through the Registrar's office. If for some reason it is beyond the drop period, you must notify me in writing that you would like to be dropped from the course and give an explanation why you are requesting a drop grade. Failure to comply will result in the grade you would have otherwise received.

Student Conduct In-Class:

This is a college course and I expect everyone to act as such. Students are expected to assist in maintaining a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from time spent in class, inappropriate or distracting behaviors are not allowed and may result in a request to leave the classroom. In addition, any acts of classroom disruption that go beyond the normal rights of students to question and discuss with instructors the educational process relative to subject content will not be tolerated, in accordance with the Student Conduct Policy described in the College Catalog. The Student Code of Conduct can be found at www.hfcc.edu/current_students/student_policies.asp

Grading:

Programs & Assignments	30%	A	92 -100
Midterm & Final	40%	B	84 - 91
Quizzes	20%	C	76 - 83
Participation & Responsibility	10%	D	68 - 75
		E	Below 68

Active Participation and Personal Responsibility:

In order to receive the maximum Participation & Responsibility points, you must actively participate and be responsible in class. There are a number of things that represent participation and responsibility. They include but are not limited to the following:

- Taking the responsibility to read and understand the syllabus information.
- Attend class both physically and mentally.
- Assume the responsibility of taking notes.
- Assume the responsibility of studying.
- Ask and/or answer questions both from me and from other students.
- Read prior to lecture.
- Read and follow instructions.
- Take the initiative to find answers first.
- Ask if you need help before it gets too late.
- Take the responsibility to get information you missed if you were not able to attend class.
- Get organized ~ Record important dates into a calendar or planner.
- Get connected ~ Exchange emails/phone numbers/profiles with other students.
- Visit my office during office hours.

Remember, this is an academic environment where your education is your responsibility. You do not pay for a grade, rather you pay for the opportunity for the environment in which you may foster subject knowledge, responsibility, proper communication, and critical thinking skills. I reserve the right to remind you of this at any time.

Tentative Class Schedule	Subject Covered	Required Reading
August 30, 2010	Introduction to Class Introduction to Compiler Introduction to C Programming Introduction to Computer Programming	Chapter 1
September 1, 2010	Data Types, Arithmetic Operators, Displaying Numerical Values, Expression Types, Integer Division, Operator Precedence and Associativity, Variables & Declarations, Initialization, Integer Qualifiers, <code>sizeof()</code>	Chapter 2
September 6, 2010	College Closed - No Classes	
September 8, 2010	Numerical Conversions ~ Binary	
September 13, 2010	Assignments, Accumulating, Counting Mathematical Library Functions, Interactive Input - <code>scanf()</code> , Formatted output, Other number bases, Symbolic Constants	Chapter 3
September 15, 2010	Assignments, Accumulating, Counting Mathematical Library Functions, Interactive Input - <code>scanf()</code> , Formatted output, Other number bases, Symbolic Constants	Chapter 3
Q September 20, 2010	Quiz #1 (Chapters 2 & 3) Functions and Parameter declarations, Returning a value, Standard Library Functions	Chapter 6
September 22, 2010	Functions and Parameter declarations, Returning a value, Standard Library Functions	Chapter 6
September 27, 2010	Functions and Parameter declarations, Returning a value, Standard Library Functions	Chapter 6
Q September 29, 2010	Quiz #2 (Chapter 6) Relations expressions, <code>if</code> statement	Chapter 4
October 4, 2010	Switch statement, errors, testing & debugging	Chapter 4
October 6, 2010	Basic loop structures, <code>while</code> statement The <code>for</code> loop, do-while loop	Chapter 5

October 11, 2010	Basic loop structures, while statement The for loop, do-while loop	Chapter 5
Q October 13, 2010	Quiz #3 (Chapters 4 & 5) Review for Mid-Term	
October 18, 2010	Mid-Term Test	
October 20, 2010	Variable Scope, Variable Storage Class	Chapter 7
October 25, 2010	Pointers/Pass by Reference, Swapping values	Chapter 7
October 27, 2010	Pointers/Pass by Reference, Swapping values	Chapter 7
November 1, 2010	Pointers/Pass by Reference, Swapping values	Chapter 7
Q November 3, 2010	Quiz #4 (Chapter 7) Single dimensional arrays, array initialization	Chapter 8
November 8, 2010	Passing arrays, Two dimensional arrays	Chapter 8
November 10, 2010	Passing arrays, Two dimensional arrays	Chapter 8
November 15, 2010	String Fundamentals, Library functions	Chapter 9
November 17, 2010	Formatting Strings, Data Validation, Counting	Chapter 9
Q November 22, 2010	Quiz #5 (Chapter 9) Arrays & Pointers	Chapter 11
November 24, 2010	Manipulating Pointers	Chapter 11
November 29 2010	Passing & using array addresses	Chapter 11
December 1, 2010	Processing/Creating Strings using Pointers	Chapter 11
Q December 6, 2010	Quiz #6(Chapters 8 & 11) Structures (Sections 12.1-12.3 only)	Chapter 12
December 8, 2010	Structures (Sections 12.1-12.3 only)	Chapter 12
December 13, 2010	Linked Lists, Dynamic Memory Allocation	Chapter 13
December 17, 2010	Final Exam ~ Friday 12/17 11:45 – 1:30	