AUBURN UNIVERSITY DEPARTMENT OF
Computer Science and Software Engineering

COMP 1200: INTRO TO COMPUTING FOR ENGINEERS AND SCIENTISTS (C)

Instructor: **Teaching Assistants:**	**Jacqueline Hundley**, Instructor Office: 3101-F Shelby Center Office Hours: See Blackboard Homepage And by appointment Email: hundljh@auburn.edu See Blackboard Homepage.	Official **email** for this course is via **Blackboard**	There are **two COMP1200 courses,** C Programming & Matlab. If not sure which you are to take, contact your **advisor**, immediately.
Time and Place:	MW 4:00-4:50, Shelby 1103. No formal lab session.		
Text:	**C Program Design for Engineers** (0-201-70871-X), Hanly & Koffman, 2ed, 2001 ***You are responsible for reading the text chapters on the schedule.***		
Tutoring:	Tutoring is available through the following: Engineering Student Services - 1210 Shelby Center, (334) 844-4310 Alabama Power/Southern Company Academic Excellence Program - 1214 Shelby Center, (334) 844-2331 Eta Kappa Nu http://www.eng.auburn.edu/organizations/HKN/tutor.html A word of caution when using a tutor. A tutor should help you understand concepts NOT help you with your assignments. Your assignments should be YOUR INDVIDUAL WORK. Not your tutor's or a friends'.		
Course Description:	Computer programming in a high-level language with emphasis on the use of the computer as a tool for engineering or science.		
Course Objectives:	This course is designed to give the student a basic understanding of using programming software (the C programming language specifically) to solve problems. • Given software requirements specification, the student will successfully create a software design, translate that design into C source code, compile it, link it, and run the program. • Given source code written in C, the student will correctly answer questions about the program's purpose and about the syntax and semantics of the source code. Through the assignments the student will have a working example of the following areas dealing with programming and the C Programming Language: 1. The elementary concepts of computer programming. 2. Using variables to store information and using variables in expressions. 3. The function and use of decision-making structures (conditional selection). 4. The function and use of repetition structures (loops). 5. Reading and writing to files. 6. Making user defined Functions 7. The basic idea of arithmetic operators 8. Using lists and tables to store information. (1D and 2D arrays) 9. The utility of loops when working with arrays. 10. The utility of nested loops.		
Class Attendance:	Attendance will not be taken. If you are absent, it is your responsibility to get missed notes or information about assignments from another student. 1) For exams: a. If you have a planned university-approved absence, you must make me aware of it before the test day in writing with appropriate documentation. b. If you have an unplanned absence, you must provide written, documented, and verifiable justification. See the *Tiger Cub* http://www.auburn.edu/tigercub/ for valid excuses for absences. c. Make-up exams will likely not be similar to the original exam. 2) If you are late for an exam, you do not receive any extension.		

Course Software and Computing Facilities:

We will use the development environment jGRASP and the C compiler CYGWIN. This software is available in Shelby 2119, 2122, 2210, 1202 and many other College of Engineering (COE) computer labs. See http://eng.auburn.edu/admin/ens/labs/index.html for more information. NOTE: On home football weekends, the engineering computer labs will the CLOSED from midnight Friday to noon Sunday.

You may install jGRASP and CYGWIN on your computer. The recommended source of this software is on the FCI CD that is put together by the College of Engineering. The CD is available free to any engineering student and to students needing it for an engineering course. It is handed out as part of the Camp War Eagle packet and is also available in 103 L Building (Engineering Network Services) or in 1210 Shelby Center (Engineering Student Services). This software is also available at www.jGrasp.org and www.cygwin.com. http://www.eng.auburn.edu/admin/ens/fcicd/index.html

MAC users will also need to install XCODE that is on the FCI CD.

To use the computers in an engineering building, you will need an engineering account. Students registered for an engineering course will automatically be given an engineering account. If this is the first semester that you are using an engineering account, you will need to synchronize your passwords at: http://www.auburn.edu/oit/account_info/ Engineering students need to do this once. Non-engineering students' accounts will terminate at the end of the semester; you will need to synchronize your passwords each semester you are enrolled in an engineering course. If you have problems, contact Engineering Network Services in 103 L-building.

For access to Shelby after hours, you will need to swipe your ID at the exterior doors. To request an AU ID card swipe, see the Engineering CardSwipe Request link on the Engineering Network Services website http://eng.auburn.edu/admin/ens/ NOTE: For non-engineering students, this access will be cancelled at the end of the semester.

Assessment:

Programming Assignments :	400 pts
Exams:	
Exam 1	180 pts
Exam 2	180 pts
Final exam	240 pts

NOTE:
To pass this class you must earn at least 50% credit (400 pts) on the programming assignments.
NO EXCEPTIONS.

Grading Scale:	
A	[900,1000]
B	[800, 900)
C	[700, 800)
D	[600, 700)
F	[0, 600)

Grades will be recorded on Blackboard in a timely manner. Check your grades on Blackboard in "My Grades." The "Grade Forms" and grader comments are available on the **"Graded" tab** on the Assignment link. It is your responsibility to contact your teaching assistant with questions about your assignment grades or the instructor about an exam grade.

You have *SEVEN (7) DAYS* *AFTER an ASSIGNMENT* or *a TEST GRADE is POSTED* to question the grade. After that time, the grade will stay as it is. There are no exceptions.

Your course grade will be determined by The total points on Blackboard and the above grading scale, i.e. 899.49 is a B, 799.49 is a C, 699.49 is a D, and 599.49 is an F.
There are no exceptions.

Exams:

Exams will be closed book, closed notes. Questions will be derived from the text, lecture slides, material covered only in class, and assignments. Question format will be multiple-choice. A large blue scantron, your picture ID, and your Banner Number are required.

FINAL EXAM IS ON THE LAST MEETING DAY FOR THIS CLASS AT REGULAR CLASS TIME.

Late Assignments and Missed Exams

Programming assignments are due by 11:59 p.m. on the due date (Wednesday).

NO (i.e., ZERO) CREDIT WILL BE GIVEN FOR LATE SUBMISSIONS.

It is always the student's responsibility to initiate arrangements to make up a missed exam. These arrangements must be initiated within seven (7) days of the original missed due date or within seven (7) days of your return to campus (documentation required). Any missed exams or programming assignments will be given a zero score.

Discussing Grades

If you wish to discuss a grade or obtain assistance, you must adhere to the following procedures:
1. **ALL GRADE DISCUSSIONS MUST BE HELD IN PERSON**. Questions concerning grades will NOT be accepted by email.
2. In all other matters, the official form of contact for this course is email via Blackboard. This will allow the instructor and GTAs to quickly identify course-related email.

Programming Assignments:	(8 programming assignments, 50 pts each) Instructions for assignments will be posted on Blackboard. Your solution files will be submitted by uploading the file(s) to Blackboard. You are responsible for your files being uploaded properly to Blackboard. Keep in mind the cut-off time is 11:59 p.m. Blackboard time…not yours. Do not wait until the last minute and chance missing the cut off. The TA(s) will score the assignments and post your grade and grading comments on Blackboard. The name of the TA who graded your assignment can be found on the assignment grade form. You may view the grade form and comments on the **"Graded" tab** on the Assignment page. You are expected to do your own work. Copying someone's assignment or changing someone's work and submitting it as your work is considered cheating. When you have a problem, the best sources of help are the teaching assistant(s). Assignments will be graded based upon the following criteria: • Runs producing correct output • Following instructions • Development Plan • Documentation & Neatness & coding standards All programs for this course will be graded using College of Engineering (COE) computers. It is your responsibility to ensure that the work you turn in will run without errors on the COE computers. Students who use a Mac or a Windows machine with a different operating system (OS) to complete you assignments in this course should be check your file(s) on a COE computer. If your program crashes or fails to run properly because of Mac-to-PC or OS problems, standard grade deductions will apply. The burden of proof that you did correctly submit your files is on you. Check the **"Submitted" tab** on the Assignment page to be sure. If you have any questions on how to upload a file via Blackboard, be sure to get help before the day the assignment is due. If a student waits until the last several hours (e.g. after business hours on the due date) to upload their files and something /anything goes wrong no grace period will be given and no late work will be accepted. Give yourself plenty of time in case something goes wrong. Finally, it is your responsibility to upload the correct files to be graded. After the deadline, the GTA will only grade what work is turned in. So, if you turn in a BLANK file, you will get a 0. If you are sharing a PC with a friend and you turn in their file(s) by mistake, it will be considered COPYING and you will BOTH get a 0. If you turn in the WRONG file, you will get a 0. Bottom-line is make sure you turn in the correct files!
Contingency Statement:	If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation (such as an H1N1 flu outbreak), the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials.
Special Accommodations:	Students who need accommodations are asked to arrange a meeting with your instructor as soon as possible. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844-2096 (V/TDD).
Communication Devices:	Communication devices such as mobile phones and pagers should be turned off or set to silent mode before a class or lab begins, and should remain in this setting until the class or lab is over. It is extremely disruptive for phones to ring during class. Communication devices, handheld computers (e.g., Palm, PocketPC devices), and laptops are not allowed during exams.

Classroom Behavior:	See page 35 in the *Tiger Cub*. Examples of improper behavior in the classroom (including the virtual classroom of e-mail, chat rooms, telephony, and web activities associated with courses) may include, but are not limited to, the following: 1.1. Arriving after a class has begun; 1.2. Use of tobacco products; 1.3. Monopolizing discussion; 1.4. Persistent speaking out of turn; 1.5. Distractive talking, including cell phone usage; 1.6. Audio or video recording of classroom activities or the use of electronic devices without the permission of the instructor; 1.7. Refusal to comply with reasonable instructor directions; 1.8. Employing insulting language or gestures; and 1.9. Verbal, psychological, or physical threats, harassment, and physical violence.
Academic Integrity:	Students are expected to understand and follow Academic Honesty policies in place by the university. The following is excerpted from the AU Faculty Handbook: *Auburn University expects students to pursue their academic work with honesty and integrity.* *Violations of this principle are enumerated in the Tiger Cub. Briefly, violations include:* *1. The possession, receipt, or use of any material or assistance not authorized in the preparation of an assignment or during tests.* *2. Giving assistance to another in such practices.* *3. Furnishing in any way material containing future examination questions or answers.* *4. Plagiarism (submission of work that is not one's own without proper acknowledgment).* *5. Attempting to alter an assigned grade.* *6. Other actions delineated by the instructor.* The "University Academic Honesty Code" may be found in the SGA Code of Laws cited in the *Tiger Cub.* See `http://www.auburn.edu/tigercub/` If you need help to complete your assignment, you are free to ask the instructor, a TA, a tutor, or other students in the class to help you. **However, you MUST document any assistance received, clearly.** If you discuss a project with the instructor, a TA, a tutor, or other students, you must indicate what you discussed and who you discussed it with clearly as a comment (or comments) in the header of your assignment documentation and/or code. For example: "Ms. Hundley or TA's name helped me debug a syntax error in my 'for loop'." "I used Wikipedia.org in order to learn how a 'while loop' works." "I spoke with Bob Smith in the class about opening text files." "My tutor, Alice Jones, helped me with the 'switch' in this assignment." If you did not received assistance outside of the course material, you must indicate this via a comment in the header of your assignment documentation and/or code. For example: "I worked on my assignment alone using course material only." Failing to document sources is plagiarism and will be penalized. If you are unsure whether or not to document a source, it is better to document. Receiving assistance with an assignment and not documenting it is Academic Dishonesty and will result in, at best, a grade of 0 for all participants. Failure to comply with these specifications will result in significant grade penalties and/or referral to Academic Dishonesty. **If you are ever unclear about whether or not a course of action is unacceptable, you are always free to consult the instructor.**