ECE 2730: Computer Organization Lab Fall 2016

Course: ECE 2730 Section 003, 04:30 pm-06:30 pm Monday

Room: Riggs 321

Lab Instructor/TA: Ravi Prakash Kandury **Office:** Fluor Daniel 344 **Phone Number:** 864-624-7470

Email: rkandur@g.clemson.edu

Office Hours: Monday 03:30PM to 04:30PM -- Other times by appointment

Course Websites:

http://www.clemson.edu/ces/departments/ece/resources/lab_manuals.html

Required Materials:

ECE 2730 Lab Manual. This can be found at the course website above.

Objectives:

- Learn how to write simple programs in the assembly language
- Understand the different forms of addressing and how to implement them
- Learn the use of flags, control statements, arrays, and pointers
- Become familiar with subroutines and stack organization

Grading:

Attendance is required; please wait for 15 minutes in the event that the instructor is late. Grades will be kept as follows:

70% Lab Assignments (6) – 15% Lab Quizzes (6) – 15% Lab Final Exam

Assembly Lab Assignment Grading (50 points each):

• CODING (25 points)

Emailed correctly (5 pts)

Compiles and Runs (5 pts)

Correctness (15 pts)

• DOCUMENTATION (25 points)

Inline Comments and Aesthetics (15 pts)

Program Header (5 pts)

Function Header (5 pts)

NOTE:

The assembly programs need to be entirely your own work. You should not look into the codes given in the lab manual, though you may wish to consult the theory in the manual for understanding. Please see me during the given office hours or by appointment for clarification. Copied code, either from fellow classmates or from the lab manual, is not acceptable.

All programs should be submitted by email before the beginning of the lab period that the assignment is scheduled due. Submit the commented assembly file using the following naming format:

<Lastname>_2730_<3-DigitSectionNumber>_<1-DigitAssignmentNumber>.s
(For example: Raman_2730_001_1.s for the first assignment).

The subject line of the email must be in the following format:

<Lastname>_2730_<3-DigitSectionNumber>_<1-DigitAssignmentNumber> (For example: Raman_2730_001_5 for the fifth assignment).

The assembly file should include the Program Header, any necessary Function Headers, and adequate in-line comments along with the assignment code. See the course lab manual appendix on more details concerning proper header and in-line comment formatting. Strict adherence to the above formats must be followed.

Lab Quizzes and Final Exam

All quizzes and the final exam will be administered in lab using Blackboard.

For the quizzes, you may work together with other students in groups of 2 or 3.

The final exam will be done individually in lab during the last week of classes.

Grade Scale:

90-100 = A; 80-89.99 = B; 70-79.99 = C; 60-69.99 = D; 0-59.99 = F

Academic Integrity:

"As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a high seminary of learning. Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form."

Conduct:

All students are expected to act in a professional manner and to pay attention to the instructor during lectures. Behavior judged by the instructor to be distracting, discourteous, or disruptive will not be tolerated. Prohibited behavior includes, but is not limited to, excessive talking, sleeping, working on homework, reading, and improper use of electronic devices (including laptop computers, cell phones, and personal music players). A student who fails to abide by these standards of conduct will be removed from the course and/or assigned a final grade of F.

Title IX:

Tentative Schedule – Fall 2016 Section 003 (Monday Sections)

Date	In Class	What is Due
Monday, August 29	Overview, Login, Lab #1: Introduction to Assembly	
Monday, September 5	Quiz #1 and Lab #2: Simple Assignments	Lab #1
Monday, September 12	Quiz #2 and Lab #3: Control Statements	Lab #2
Monday, September 19	Quiz #3 (continue Lab #3)	
Monday, September 26	Lab #4: Addressing Modes, Arrays, and Pointers	Lab #3
Monday, October 3	Quiz #4 (continue Lab #4)	
Monday, October 10	Lab #5: Stacks and the Subroutine	Lab #4
Monday, October 17	Spring Break – no lab	
Monday, October 24	Quiz #5 (continue Lab #5)	
Monday, October 31	Lab #6: Subroutine Parameters	Lab #5
Monday, November 7	Quiz #6 (continue Lab #6)	
Monday, November 14	Catch-up Day/Review for Final	Lab #6
Monday, November 21	Final Exam	

The instructor reserves the right to make changes to this syllabus during the semester. Students will be notified by the instructor if any changes are made.