Instructor

Devin Cook, M.S.

Contact Information

I use the same e-mail address to answer questions and to receive your coursework. So, please use a descriptive subject in your e-mail. I get quite a bit of e-mail, and the subject helps a lot.

E-Mail	dcook@csus.edu
Office	Riverside Hall 5009
Zoom #	331 390 3761

Website

All the information in this syllabus – as well as other helpful information presented during the course – can be found online.

Website	`athena.ecs.csus.edu/~dcook/35`

Course Description

Catalog Description

Internal representation of numeric and non-numeric data, assembly level machine architecture, addressing modes, subroutine linkage, polled input/output, interrupts, high-level language interfacing, macros and pseudo operations. Lecture two hours, technical activity and laboratory two hours.

Prerequisites

CSc 15

Textbook

None

Major Topics

- Numeric and non-numeric data representation. Representation of Elementary Language Data Types: integer, real, Boolean, character

- Processors, registers, and instruction encoding

- Von Neumann architecture and processor design philosophies

- Memory location alignments and data movement instructions

- Conditional logic

- Modules: defining subroutines, calling subroutines

- Addressing modes: registers and memory locations

- Interrupts, vector tables, and interaction with the operating system

- High-level language interfacing, inline assembly, introduction to code generation

Crashing the Course

- **All** student adds are done, in-person, during the second week of the Semester.

- Waitlisted students will be added first. But, only students physically present will be added.

Academic Integrity

- Do **not** plagiarize. Plagiarism is the act of incorporating another person's work into yours and claiming it as your own.

- Do **not** aid any student to commit academic fraud. This means you **cannot** show your solution to another student or show how to do it.

- Do **not** use Discord for any channel related to the course. This will be considered cheating.

- In **any** case of cheating, both the student that copied the solution, **and** the student who allowed it, will receive a zero. For severe incidents, it will result in an automatic **F** in the course.

- Any assignments done in prior semesters, *even if you took this class*, are **not** allowed. Any prior work will receive an automatic zero.

Lectures

- Attendance is vital to your success in the course. If you miss a class, you are responsible for checking with a classmate about the material we covered.

- Please ask questions or give comments. I enjoy back-and-forth interactions with students.

- During lectures **no** electronic devices, of any type, are allowed. This includes laptops, phones, and other texting devices. **No** exceptions.

- I will provide all the lecture slides in PDF format on the website. So, you don't have to take notes.

Assignments

- You only get to submit each assignment **once** – so make sure you did it correctly!

- Late assignments are penalized. I will take off **20%**, per day, starting immediately after the assignment is due. Weekend days are counted.

- **Do not ask other students for help.** All assignments are individual work only.

- My job is not to give you the correct solution, but to help you figure it out by yourself. There are no "dumb" questions, so don't be afraid to ask.

Grading

Title	Points
Lab Activities / Quizzes	300
Midterm Exam	300
Final Exam	300
	900

- The Final is comprehensive.

- Any material covered in the lectures, or the notes can be included in the exams.

- **Note:** Depending on how much material is covered during the semester, the percentages may vary.

Student Resources

- **Student Health & Counseling Services**
  www.csus.edu/student-life/health-counseling

- **Crisis Assistance & Resource Education Support**
  www.csus.edu/student-affairs/crisis-assistance-resource-education-support/

- **Reading and Writing Center**
  www.csus.edu/undergraduate-studies/writing-program

- **Services for Students with Disabilities**
  www.csus.edu/student-affairs/centers-programs/disability-access-center