This course covers the following topics:

- Binary representations of data
- Introduction to architecture
- Machine instructions
- Assembly programming
- Introduction to compilation
- Introduction to C programming

Instructor: Christopher Siu, cesiu@calpoly.edu
Lectures: MWF, 12:10pm–1:00pm, Computer Science (014–250)
Labs: MWF, 1:10pm–2:00pm, Computer Science (014–302)
Office Hours: MWF, 3:10pm–4:00pm, TR, 1:10pm–2:00pm, Computer Science (014–240)
Course Website: You will find all course information on PolyLearn.

Recommended Textbooks:
The C Programming Language (2nd Edition), Brian W. Kernighan and Dennis M. Ritchie, Prentice Hall, 1988

Grade Breakdown:
You must average at least 65% on the exams or 70% on the final exam in order to receive a C− or better.

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>0%</td>
<td>A 92%</td>
</tr>
<tr>
<td>Assignments (8)</td>
<td>22%</td>
<td>B 82%</td>
</tr>
<tr>
<td>each</td>
<td>2 – 3%</td>
<td>C 72%</td>
</tr>
<tr>
<td>Midterm Exams (2)</td>
<td>44%</td>
<td>D 60%</td>
</tr>
<tr>
<td>each</td>
<td>22%</td>
<td>F below 60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>34%</td>
<td>-plus and -minus grades given on a case-by-case basis</td>
</tr>
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</table>

Homework:
You will be given homework problems from the textbook. Homework will not be collected, however, exam questions may be drawn from or based on homework questions.

Assignments:
Programming assignments will consist of one or more of the following:

Demo — A working program, which must be demoed by the end of the lab period on the day the assignment is due. You are expected to come to lab prepared to demo.

Write-up — A physical copy of the written component of the assignment, which must be submitted by the end of the lab period on the day the assignment is due.

Handin — Your source code for an assignment, which must be handed in electronically via GitHub Classroom by midnight at the end of the day the assignment is due.

There will be no late assignments accepted. Demo and hand in what you have on the day it’s due.
Important Dates:

- Midterm I: Monday, February 5th (in class)
- Midterm II: Friday, March 2nd (in class)
- Common Final Exam: Wednesday, March 21st, Engineering West (021–235)
- No Class:
  - Monday, January 15th
  - Monday, February 19th
- Monday Schedule: Tuesday, February 20th

Who to Contact:
Contact your fellow students if you have missed class and want to know what was covered; I will not reiterate lectures if you miss class. Contact me with all other questions, including all questions about grading.

Students with Disabilities:
If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Disability Resource Center, Building 124, Room 119, at (805) 756–1395, as early as possible in the term.

Classroom Etiquette:
You are free to use computers, tablets, phones, or other electronic devices in the classroom, except during exams. However, out of respect for your classmates, please silence your devices and consider sitting in the back. If I feel that you are distracting your classmates, I may ask you to move to the back or put away your device(s).

If your phone goes off in class, then you must bring cookies for the entire class to the next lecture.


Attendance:
Attendance is always expected but only required on days when an assignment is due or an exam is given.

Academic Integrity:
The University does not condone academic cheating or plagiarism in any form. Students are expected to behave in accordance with the University’s expectations. I encourage you to collaborate on homework and in discussion of concepts, however, programs and exams must be solitary efforts. Collaboration includes but is not limited to:

- Reading or copying even a single line of another student’s code or write-up
- Writing part of another student’s assignment
- Transferring, publishing, or otherwise making files available to other students

For some programming assignments, you will be allowed one (and only one) partner. There is no obligation to have a partner, and you may change partners between assignments.

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1 Portions of this course adapted from material by Julie Workman, Paul Hatalsky, and Dr. Theresa Migler-Von Dolien