University of Wyoming  
College of Engineering  
Department of Computer Science

SYLLABUS

Computer Science 2150 - Computer Organization

<table>
<thead>
<tr>
<th>Semester</th>
<th>Spring 2015</th>
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<tbody>
<tr>
<td>Meeting</td>
<td>Monday, Wednesday, and Friday, 9:00 AM - 9:50 PM, room EN 4059</td>
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<tr>
<td>Instructor</td>
<td>Dr. Kim Buckner</td>
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<tr>
<td>Office</td>
<td>EN 4089</td>
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</tbody>
</table>
| Office Hours| • Monday, Friday: 10:00–12:00  
              • Tuesday, Thursday: 1:00–2:00  
              • Other times are available by appointment |
| Contact     | • Email: kbuckner@uwyo.edu  
              • Office Phone: 307-766-5182 |

Course Description: Introduces students to the organization and architecture of computer systems, beginning with the standard von Neumann model and then moving forward to more recent architectural concepts.

Prerequisites: COSC 1030

Objectives: We will focus on two primary tasks: enhancing object-oriented program design skills and gaining practical expertise with the C++ language. Particular objectives which we will pursue are detailed as follows:

- Mastery of C++ syntax for structured programming with sequential, selection, looping and procedural capabilities.
- Mastery of basic procedural programming concepts for solving simple computational tasks and verifying correctness.
- Mastery of C++ syntax for describing simple data structures with class definitions and implementations.
- Advanced practice in use of object-oriented design techniques to implement simple computational problem solutions.
• Practice in C++ Standard Template Library use for data structure and algorithm implementation.


Course Policies:

• Grading:
  - A 90% - 100%
  - B 80% - 89%
  - C 70% - 79%
  - D 60% - 69%
  - F Below 60%

• Percent of Grade:
  - Homework – 30%
  - Hour Exams (2) – 40%
  - Final Exam (comprehensive) – 30%

Course Website and Email: Course materials (including this syllabus, homework assignments, lecture notes, etc.) will be posted on the WyoCourses course site. Electronic mail will be used extensively for reporting changes to the schedule, providing feedback for electronically submitted assignments, and for distributing notice of updates to online resources. Each student should check their UW registered email address frequently. If you are primarily using a different email address, then forward your UW email to the address you check regularly. (See the IT web at [http://www.uwyo.edu/askit/displaydoc.asp?id=5101](http://www.uwyo.edu/askit/displaydoc.asp?id=5101)
**Academic Honesty:** Assignments are intended to be completed independently unless otherwise specified by the instructor. UW Regulation 6-802 defines academic dishonesty and specifies the penalties (see Office of the General Counsel’s webpage and select New Regulative Structure for the content of all the University regulations)

Collaboration and discussion are acceptable, but you MUST do your own work. The grade you receive must represent your effort and achievement not that of others. Anything else is unfair to you and to your fellow students.

**Attendance:** Attendance at the lecture is highly recommended as not all material will come from the texts. (see further UW Regulation 6-713)

**Students with disabilities:** If you have a physical, sensory, cognitive, or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability to, University Disability Support Services (UDSS) in Student Educational Opportunity (SEO), room 109 Knight Hall.

**Early Alert:** In late September, you can view a progress report in WyoWeb for your classes. When you click on the Students tab in WyoWeb, you will see Quick Links on the left side bar, go to EARLY ALERT grades. You will see either a P for pass, or a D or F grade for each of your courses. If you have withdrawn from the class you will see a W. Be sure to talk to your instructor if you have a D or F grade. Remember, this is a progress report—not a final grade! This is an ideal time to visit with your instructor and/or your advisor to talk about your options and avenues for support in the class (call 766-2398 for the Center for Advising & Career Services).

**Suggestions:** Some recommendations for study which you should consider are as follows . . .

- **Don’t miss class.** New material is covered each lecture, including methods and concepts which are not covered in the course text. The course moves very quickly. You can’t afford to miss class.

- **Don’t ignore the homework assignments.** They comprise a total of 30% of your grade. If you only completed the exams, you would need a perfect score on every exam to avoid a D grade for the semester. Getting a D means that you would have to retake the course.

**Other Information:** The use of cell phones, pagers, and other devices that beep, ring, etc. is prohibited in class. They must be turned off or set to “silent”. Text messaging is extremely distracting so please wait until after class to reply to or even check your messages.

**Basic Course Schedule:** The academic calendar that can be accessed from WyoWeb, shows ’important’ dates. The ones that most concern us are:
• January 26, First day of classes
• March 13, Midterm Grades due
• March 16-20, Spring break
• May 8, Last day of classes
• May 13, Final Exam, 8:00 – 10:00 AM
• May 16, Commencement

Notes:

• The above schedule is subject to change. The latest version will always be on the course website.

• Office hours are kept for the benefit of the students. They are intended to be set times when the instructor is available in his office to answer questions, discuss course material and provide help. If I will not be available for office hours, you will be notified as much in advance as possible. There are times when this may have to be a note on my door. I am normally here at the University from 0800 to at least 1430 Monday through Friday. I do have other classes. If you wish to come by outside of scheduled hours, please feel free. I will not guarantee that I can talk to you but we can make arrangements for some other time when I am available. You can also call or email.

• I do not often read email in the evenings and on weekends. I do have my machine on all the time I am in the office and unless I get absorbed in something, I read and answer my email all day. But, do not plan on an immediate answer. I will read and answer as fast as I can but there are no guarantees.

This Syllabus: This document is subject to change. Any changes will be communicated to the students in a timely manner. No changes involving grading will affect assignments already given at the time of the change. No changes in assignment due dates will affect current assignments if such change causes the assignment to be due earlier than originally indicated.

Last Update: January 22, 2015