# CS1030 – 33662 (TR: Ogden Campus)

## Syllabus - 1030 - Introduction to Computer Science

| Instructor: | Alison Sunderland  
Email: [alisonsunderland@weber.edu](mailto:alisonsunderland@weber.edu) (slow), Canvas email is preferred.  
Phone: 801-395-3592  
Office: Davis Campus, D2-308K  
Office Hours: Mon: 4:30pm – 7:30pm,  
Wed: 12:30pm – 2:30pm and 4:30pm – 5:30pm |
|---|---|
The materials will also be supplemented with additional web links |
| Course Description: | A solid foundational introduction to Computer Science course is essential in undergraduate programs to ensure that all students are on the same footing for subsequent courses. This course follows the core body of knowledge specified by the ACM which provides students with a broad overview of topics they might encounter within the Computer Science curriculum.  
The course is taught at an introductory level. Students will learn firsthand about the field of computer science as both a degree and a career through topics such as: history of computers, computer architecture, operating systems, world-wide web and HTML, computer programming, database, software engineering, networking, and more. |
| Learning Outcomes: | Upon successful completion of this course, the student shall be able to  
• Research and summarize relevant topics in computer science  
• Analyze employer job listings  
• Compare operating systems  
• Design a client network  
• Create a web page  
• Develop a database and SQL query  
• Write a Software Design Document (SDD) for a client  
• Evaluate problem solving techniques  
• Create a computer program |
| Canvas: | This course will be conducted using Canvas, Weber States online course management system. To log on to the course, go to [http://canvas.weber.edu](http://canvas.weber.edu), and follow the login instructions. You will need your WSU wildcat name and password to log in. You should have already received this information from the admissions department. If you still have problems getting into the course, please email me and I will see if I can resolve the issue.  
If you are unfamiliar with Canvas, go to [https://learn-wsu.uen.org/courses/8878](https://learn-wsu.uen.org/courses/8878) for a student orientation. Click on the links on the left side of the page. PDF help documents are available at [http://departments.weber.edu/ce/distancelearning/CanvasFAQ.aspx](http://departments.weber.edu/ce/distancelearning/CanvasFAQ.aspx) |
### Announcements

I use Canvas Announcements to communicate with the class as a whole. Make sure to set up your Canvas profile to receive Announcements in a timely manner.

**First set up one or more contact methods,** preferably the email you check daily or your active cell phone number: Profile -> Ways to Contact

**Next, set the notification for Announcements:** Profile -> Notifications -> under Announcements set at least one contact method to ASAP

You are responsible for the information contained in all Announcements.

### Davis Campus Student Services:

| Students with Disabilities: | Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 221 of the Student Services Center. SSD can also arrange to provide course materials (including this syllabus) in alternative formats if necessary. You can also call 801-395-3524 or visit [http://www.weber.edu/ssd](http://www.weber.edu/ssd) for more details. |
| Medical Services: | The Student Health Center provides quality, cost-effective health services including outpatient medical care for common illnesses and injuries, disease prevention activities, and health promotion. For more information, contact the Student Health Center: 801-395-3521, Davis Campus Room D2 - 220, or online at [http://weber.edu/healthcenter](http://weber.edu/healthcenter) |

**ADDITIONAL SERVICES INCLUDE:**
Most services in D2, Suite 262, 2nd floor.
Call for appointments or information: **801-395-3460**

| Career Services | Counseling & Psychological Services |
| International Student Services | Multicultural Student Services |
| Nontraditional Student Services | Veterans Services |
| Veteran’s Upward Bound Advising And Tutoring | Wildcard And Ed Pass |
| Women’s Services |

### CS Network Account Logons:

| Students taking CS classes are given access to the CS network which includes access to a Windows server (Athena) and a Unix server (Icarus). Computers in the CS labs and in the CS classrooms require the CS logon. |

To log into the CS network:

**Username:** an upper or lower case W followed by your W# (Example: w12345678)

**Password:** the last 4 digits of you W# followed by cs! (Example: 5678cs!)

Students can access the Computer Science department’s Windows server either in our labs or through terminal server. Students may access Athena from the CS lab, from home or from work.

To log into Athena, use Remote Desktop
Start-> Programs-> Accessories-> Remote Desktop Connection OR
Start-> Programs-> Accessories-> Communication-> Remote Desktop Connections
Type athena.cs.weber.edu:53243 into the Computer text box.
To access data from the local computer on Athena, click Options-> Local Resources and make sure the Disk Drives box is checked
**Username**: a capital W followed by your W#. (Example: W1234567)

When accessing Athena from a computer outside the CS network (your home computer or laptop), the username should be preceded by a cs\ (Example: cs\W1234567)

**Password**: the last 4 digits of your W# followed by cs! (Example: 4567cs!) The first time you log on, you will have to change your password. The password must be least 8 characters, containing both upper and lowercase alpha characters, numbers and special characters. (Example: aBc+D3f~)

UNIX homework problems can be completed on ICARUS, the CS Department's main UNIX server. Students may access ICARUS from the UNIX lab, from home or from work.

There are two ways to access ICARUS:
Click on the SSH to ICARUS link at icarus.cs.weber.edu. OR
click on the PuTTY icon on the Athena desktop. Enter 137.190.19.20 and click open.
On the command line prompt, type “login as:"
**Username**: your initials followed by the last 5 digits of your W# (Example: as34567) **Password**: your first name with the first letter capitalized followed by cs! (Example: Alisaonscs!)

All information can be found at: http://icarus.cs.weber.edu/remote.html

Network accounts should be created for the students automatically. If you have any problems logging into the system, please contact PatrickBeck@weber.edu for technical assistance.

**Grading:**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly Classwork/Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Weekly Homework Assignments</td>
<td>25%</td>
</tr>
<tr>
<td>Weekly Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Computer Programs</td>
<td>10%</td>
</tr>
<tr>
<td>Midterm/Final Exams</td>
<td>30%</td>
</tr>
<tr>
<td><strong>Total Points Possible</strong></td>
<td>100%</td>
</tr>
</tbody>
</table>

**Classwork / Participation**
Classwork is made up of individual and/or group work complementing the material covered in class. Classwork is completed during class and submitted online or on paper at the end of class. Classwork accounts for 10% of the total grade.

**Homework Assignments**
Homework assignments are made up primarily of questions taken from the Digging deeper, Discussion topics, and Internet research sections at the end of each chapter. Occasionally, homework will involve individual projects. Homework will be
submitted online on or before the due date; normally, one week after the date it was assigned. Homework accounts for 25% of the total grade.

### Quizzes
Quizzes consist of true/false, multiple choice, and/or short answer questions. Quizzes are based primarily on the information presented in the textbook. Students are strongly encouraged to read the assigned chapter(s) each week. Quizzes will be taken either online or on paper in-class each week. Quizzes account for 25% of the total grade.

### Computer Programs
Two computer programs are assigned during the last two chapters of the textbook. Programs are graded on readability (whitespace), detailed comments, descriptive variable names, and functionality. Computer programs account for 10% of the total grade.

### Midterm / Final Exams
The midterm and final exams consist of true/false, multiple choice, short answer, and/or essay questions. The final exam includes a programming assignment. Exams will be taken on paper either in-class or in the Davis testing center. The midterm and final exams account for 30% of the total grade.

### Late/Missing Homework
Late assignments will not be accepted. Homework and Quizzes can be made up only for absences that were pre-arranged or excused. Classwork cannot be made up.

### Cheating:
CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in: 1) an automatic failing grade for the class and 2) a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct.

The WSU Student Code explains:

a. Cheating, which includes but is not limited to:
   i) Copying from another student's test;
   ii) Using materials during a test not authorized by the person giving the test;
   iii) Collaborating with any other person during a test without authorization;
   iv) Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test without authorization of the appropriate University official;
   v) Bribing any other person to obtain any test;
   vi) Soliciting or receiving unauthorized information about any test;
   vii) Substituting for another student or permitting any other person to substitute for oneself to take a test.

b. Plagiarism, which is the unacknowledged (uncited) use of any other person’s or group’s ideas or work. This includes purchased or borrowed papers;

c. Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit;

d. Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process;

e. Giving, selling, or receiving unauthorized course or test information;

f. Using any unauthorized resource or aid in the preparation or completion of any course work, exercise, or activity;

g. Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions.

### Letter Grades:

<table>
<thead>
<tr>
<th>Total</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 94%</td>
<td>A</td>
</tr>
<tr>
<td>74% ≤ Total &lt; 77%</td>
<td>C</td>
</tr>
<tr>
<td>Week</td>
<td>Reading Assignments</td>
</tr>
<tr>
<td>------</td>
<td>---------------------</td>
</tr>
</tbody>
</table>
| 1 Jan 12 | Chapter 1, History and social implications of computing (1)  
Chapter 2, Computing security and ethics (1) | Canvas Orientation  
Individual work – research history  
Group work – research security | Digging deeper, Discussion topics, and Internet research |
| 2 Jan 19 | Chapter 3, Computer Architecture (2) | Individual work – research hardware | Digging deeper, Discussion topics, and Internet research |
| 3 Jan 26 | Chapter 4, Networks (2) | Group work – network design | Digging deeper, Discussion topics, and Internet research |
| 4 Feb 2 | Chapter 7, Numbering Systems and Data Representations (2) | Individual work – number conversion | Numbering Systems Worksheet |
| 5 Feb 8 | Chapter 5, The Internet (2) | Individual work - research job listings | HTML Project |
| 6 Feb 16 | Chapter 6, Database Fundamentals (2) | Individual work - research job listings | Database Project |
| 7 Feb 23 | Chapter 8, Data Structures (1)  
Chapter 10, File Structures (1) | Group work – hashing algorithm | Midterm Exam Review Flash Cards due no later than Sat. Feb 28.  
Midterm Exam Review Opinion due no later than Sat. Mar 7. |
| 8 Mar 2 | Chapter 9, Operating Systems (2)  
Midterm (Chapter 1-8) online | Midterm Exam  
Individual work - research alternate Oss | Digging deeper, Discussion topics, and Internet research |
<p>| 9 Mar 9 | | | Spring Break: No Class |</p>
<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter/Subject</th>
<th>Assignment/Activity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Mar 16</td>
<td>Chapter 11, The Human-Computer Interface (2)</td>
<td>Group work – user interface design document</td>
<td></td>
</tr>
<tr>
<td>11 Mar 23</td>
<td>Chapter 12, Problem Solving and Debugging (2)</td>
<td>Pseudocode</td>
<td>Digging deeper, Discussion topics, and Internet research</td>
</tr>
<tr>
<td>12 Mar 30</td>
<td>Chapter 13, Software Engineering (2)</td>
<td>Group project - Software Design Document</td>
<td>Digging deeper, Discussion topics, and Internet research</td>
</tr>
<tr>
<td>13 Apr 6</td>
<td>Chapter 14, Programming I</td>
<td>Program source code</td>
<td>Programming Project #1</td>
</tr>
<tr>
<td>14 Apr 13</td>
<td>Chapter 15, Programming II</td>
<td>Program source code</td>
<td>Programming Project #2</td>
</tr>
<tr>
<td>15 Apr 20</td>
<td>Chapter 15, Programming II</td>
<td>Program source code</td>
<td>Final Exam Flash Cards due no later than Sat. April 25.</td>
</tr>
<tr>
<td>16 Apr 27</td>
<td>Finals Week Final Exam (Ch. 9-15) in class</td>
<td>Final Exam</td>
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