

<b>CS 1030</b>	Foundations of Computer Science Spring Semester 2016
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<b>Instructor</b>	Kyle Feuz Office: TE 111C Phone: 801-626-7864 E-mail: kylefeuz@weber.edu Office Hours: M,W 11:30-12:30 pm, T,TH, 10:30-11:30am Office Hours @ D2 226: M,W: 4:45 – 5:20 pm				
<b>Classroom</b>	TE 202S				
<b>Days</b>	T, TH				
<b>Time</b>	11:30-1:30 PM				
<b>Texts</b>	<i>Connecting with Computer Science (2<sup>nd</sup> Edition)</i> ; Course Technology, Anderson, Ferro, and Hilton, ISBN 978-1-4390-8035-1				
<b>Objective</b>	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 and includes topics such as: history of computers, computer architecture, operating systems, world-wide web and HTML, programming with Python, database, software engineering, networking, and more. Through a series of lectures, discussions, textbook exercises, quizzes, tests, and labs students will learn first hand about the field of computer science as both a degree and a career.				
<b>Learning Outcomes</b>	At the end of this course students should be able to: <ul style="list-style-type: none"> <li>• Summarize core computer science concepts at a high level</li> <li>• Create a basic HTML page</li> <li>• Use SQL to query a simple database</li> <li>• Solve problems using a programming language (Python)</li> </ul>				
<b>Class</b>	Class will consist of lectures, discussions, assignments, quizzes and exams. Questions and comments are encouraged. It is expected that students will read the material related to each week's coursework. There will be several in-class assignments and projects throughout the semester which will be worth 1 point each in the assignments category.				
<b>Assignments / Discussions / Projects</b>	There will be weekly assignments for the class. Assignments will consist of short answer, discussion topics, and projects. The specifics of each assignment will be posted weekly on Monday. The due date for each assignment will be the following Sunday at 11:59pm (unless otherwise specified.) Late assignments will be accepted for projects with a 10% penalty per day for up to 5 days to provide for unforeseen circumstances. There is an 8 hour grace period during which late assignments will still be given full credit. Late assignments for discussion posts will not be accepted. Assignments count for 45% of the final grade.				
<b>Quizzes</b>	There will be weekly quizzes for the class, worth 10 points each. A quiz will be posted on Saturday each week (with exception of the two weeks where we have exams.) You may take the quiz as many times as you want before the due date. The highest quiz score will be accepted. Quizzes are due Wednesday at 11:59 pm. Your lowest two quiz scores will be dropped to provide for unforeseen circumstances. Quizzes count for 15% of the final grade.				
<b>Exams</b>	There will be three exams for the class. Exams count for 40% of the final grade (the Midterm Exams being worth 10% each, and the Final Exam being worth 20%.) The exams will be available administered through the testing center. The midterm exams will open on Monday and will close on Saturday. The final exam will open on Tuesday and close on Thursday. Do not forget to take an exam. Also make sure to sign in at the testing center.				
<b>Accommodations for disabilities</b>	Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Service Center.				
<b>Grading</b>	<table border="1"> <tr> <td>Quizzes</td> <td>15%</td> </tr> <tr> <td>Assignments</td> <td>45%</td> </tr> </table>	Quizzes	15%	Assignments	45%
Quizzes	15%				
Assignments	45%				

Exams	40%
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The final grade will be given based on points accumulated through quizzes, assignments and exams. Standard grading will apply:

94 – 100	A		74 – 76	C
90 – 93	A-		70 – 73	C-
87 – 89	B+		67 – 69	D+
84 – 87	B		64 – 67	D
80 – 83	B-		60 – 63	D-
77 – 79	C+		0 – 59	E

**Allocated Time**

You should anticipate spending two to three hours of study per week for each credit hour of a university course. Computer and programming classes typically require time in the upper range.

**Policies**

Exams can only be taken on the days given unless arrangements are made to take them ahead of time. If you do not take the final exam and you do not earn a passing grade you will be given a UW.

**Cheating**

Students are expected to maintain academic ethics and integrity in regards to performing their own work. The WSU Student Code states clarifies cheating.

1. Cheating, which includes but is not limited to:
  - a. Copying from another student's test paper;
  - b. Using materials during a test not authorized by the person giving the test;
  - c. Collaborating with any other person during a test without authority;
  - d. Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test, without authorization of the appropriate official;
  - e. Bribing any other person to obtain any test;
  - f. Soliciting or receiving unauthorized information about any test;
  - g. Substituting for another student or permitting any other person to substitute for oneself to take a test.
2. Plagiarism, which is the unacknowledged (uncited) use of any other person or group's ideas or work. This includes purchased or borrowed papers;
3. Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit;
4. Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process;
5. Giving, selling or receiving unauthorized course or test information;
6. Using any unauthorized resource or aid in the preparation or completion of any course work, exercise or activity;
7. Infringing on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions;

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.

## Class Schedule and Course Outline

Week of	Topic	Coursework
<b>Jan 11</b> Week 1	Ch. 1: The History of Computing	
	Ch. 2: Computing Security and Ethics	Quiz #1
<b>Jan 18</b> Week 2		Assignment #1
	Ch. 3: Computer Architecture	Quiz #2
<b>Jan 25</b> Week 3	Ch. 4: Networks	Assignment #2
		Quiz #3
<b>Feb. 1</b> Week 4	Ch. 5: Internet	HTML Project
		Quiz #4
<b>Feb. 8</b> Week 5	Review	<b>Midterm Exam 1</b>
	Ch. 7: Numbering Systems and Data Representations	
<b>Feb. 15</b> Week 6	Ch. 7: Numbering Systems and Data Representations	Number Systems Project
	Ch. 10: File Structures	Quiz #5
<b>Feb. 22</b> Week 7	Ch. 8: Data Structures	Assignment #4
		Quiz #6
<b>Feb. 29</b> Week 8	Ch. 9: Operating Systems	Assignment #5
		Quiz #7
<b>Mar. 7</b> Week 9	Spring Break	
<b>Mar. 14</b> Week 10	Ch. 6: Database Fundamentals	Database Project
		Quiz #8
<b>Mar. 21</b> Week 11	Review	<b>Midterm Exam 2</b>
	Ch. 11: The Human-Computer Interface	
<b>Mar. 28</b> Week 12	Ch. 11: The Human-Computer Interface	Assignment #6
	Ch. 12: Problem Solving and Debugging	Quiz #9
<b>Apr. 4</b> Week 13	Ch. 13: Software Engineering	Assignment #7
	Ch. 14: Programming I	Quiz #10
<b>Apr. 11</b> Week 14	Ch. 14: Programming I	Programming Project #1
	Ch. 15: Programming II	Quiz #11
<b>Apr. 18</b> Week 15	Ch. 15: Programming II	Programming Project #2
	Review	Quiz #12
<b>Apr. 25</b>	<b>Final Exam – Comprehensive (Chapters 1-15) (Apr 26 - 28)</b>	<b>Final Exam</b>