

CS 1030 31681	Foundations of Computer Science Spring Semester 2015
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Instructor	Kyle Feuz Office: TE 111C Phone: 801-626-7864 E-mail: kylefeuz@weber.edu Office Hours: M 8:30-10:30am, W, 9:30-11:30am Office Hours @ D2 314: T,TH: 9:20 – 9:50pm						
Classroom	TE 202S						
Days	M,W						
Time	11:30-1:20 PM						
Texts	<i>Connecting with Computer Science (2nd Edition)</i> ; Course Technology, Anderson, Ferro, and Hilton, ISBN 978-1-4390-8035-1						
Objective	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.						
Learning Outcomes	At the end of this course students should be able to: <ul style="list-style-type: none"> • Summarize core computer science concepts at a high level • Create a basic HTML page • Use SQL to query a simple database • Solve problems using a programming language (Python) 						
Class	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.						
Assignments / Discussions / Projects	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 week on Monday at 8:00am (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. Late assignments for discussion posts will not be accepted. Assignments count for 40% of the final grade.						
Quizzes	There will be weekly quizzes for the class, worth 10 points each. A quiz will be posted on Friday each week (with exception of the two weeks where we have exams.) Quizzes are due Tuesday at Midnight. Your lowest two quiz scores will be dropped to provide for unforeseen circumstances. Quizzes count for 20% of the final grade.						
Exams	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.						
Accommodations for disabilities	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.						
Grading	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Quizzes</td> <td>20%</td> </tr> <tr> <td>Assignments</td> <td>40%</td> </tr> <tr> <td>Exams</td> <td>40%</td> </tr> </table>	Quizzes	20%	Assignments	40%	Exams	40%
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Exams	40%						

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.
Cheating	<p>Students are expected to maintain academic ethics and integrity in regards to performing their own work. The WSU Student Code states clarifies cheating.</p> <ol style="list-style-type: none"> 1. Cheating, which includes but is not limited to: <ol style="list-style-type: none"> 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; <p>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.</p>

Class Schedule and Course Outline

Week of	Topic	Coursework
Jan 12 Week 1	Ch. 1: The History of Computing	
	Ch. 2: Computing Security and Ethics	Quiz #1
Jan 19 Week 2	MLK Day (No Monday Classes)	Assignment #1
	Ch. 3: Computer Architecture	Quiz #2
Jan 26 Week 3	Ch. 4: Networks	Assignment #2
		Quiz #3
Feb 2 Week 4	Ch. 5: Internet	HTML Project
		Quiz #4
Feb 9 Week 5	Review	Midterm Exam 1
	Ch. 7: Numbering Systems and Data Representations	
Feb 16 Week 6	President's Day (No Monday Classes)	Number Systems Project
	Ch. 7: Numbering Systems and Data Representations	Quiz #5
	Ch. 10: File Structures	
Feb 23 Week 7	Ch. 8: Data Structures	Assignment #4
		Quiz #6
Mar 2 Week 8	Ch. 9: Operating Systems	Assignment #5
		Quiz #7
Mar 9	Spring Break	
Mar 16 Week 9	Ch. 6: Database Fundamentals	Database Project
		Quiz #8
Mar 23 Week 10	Review	Midterm Exam 2
	Ch. 11: The Human-Computer Interface	
Mar 30 Week 11	Ch. 12: Problem Solving and Debugging	Assignment #6
		Quiz #9
Apr 6 Week 12	Ch. 13: Software Engineering	Assignment #7
		Quiz #10
Apr 13 Week 13	Ch. 14: Programming I	Programming Project #1
		Quiz #11
Apr 20 Week 14	Ch. 15: Programming II	Programming Project #2
		Quiz #12
Apr 27 Week 15	Review Final Exam – Comprehensive (Chapters 1-15) (Apr 28 – Apr 30)	Final Exam