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| **CS 1030: INTRODUCTION TO COMPUTER SCIENCE**  Department of Computer Science  College of Applied Science & Technology  Weber State University   |  |  |  |  | | --- | --- | --- | --- | | **Course Syllabus** | | | | | **Instructor:** | Dr. Richard Fry | **Term:** | Fall 201X | | **Office:** | TE-110D | **Class Meeting Days:** | Tuesday, Thursday | | **Phone:** | 801-626-6919 | **Class Meeting Hours:** | 11:30-13:20 | | **E-Mail:** | rfry@weber.edu | **Class Room:** | TE-103D | | **Office Hours:** | Tuesday, 09:00-11:30 (TE-110D)  Thursday, 09:00-11:30 (TE-110D) | **Class Location:** | WSU Main Campus | |

# Welcome!

Through a series of lectures, discussions, textbook exercises, in-class projects, quizzes, tests, and labs students will learn first-hand about the field of computer science as both a degree and a career.

# University Course Catalog Description

This course follows the core body of knowledge specified by the Association of Computing Machinery (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, database, software engineering, networking, and more.

# Student Learning Outcomes

By the end of this course, students will:

* manipulate and secure electronic files on various networking and operating systems
* design, develop, and publish several webpages
* build a database and generate query results from the datasets
* write computer programs to help solve problems
* collaborate with others to weigh the pros and cons of software design/development methods
* investigate the historical context and current ethical considerations in computing

# Course Prerequisites

None

# Course Credits



4 credits

# Required Texts and Materials

Connecting with Computer Science, 2nd Edition: Course Technology, Anderson, Ferro, and Hilton, ISBN 978-1-4390-8035-1

# Course Policies: Grades

**Classwork:** 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.

**Projects:** 6 individual and/or collaborate group projects will satisfy Parts A-D of the University’s Computer Information Literacy (CIL) Core Requirements. Projects will be submitted online on or before the due date; normally, 1-2 weeks after the date it was assigned. Projects account for 60% of the total grade.

**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 20% 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 10% of the total grade.

**Late Work Policy**: There are no make-ups for the midterm or the final exam. Assignments turned in late will not be accepted.

**Extra Credit Policy**: extra credit may be given during the class.

**Grades of "I"**: Incomplete grades are given only in exceptional cases.

# Course Policies: Student Expectations

**Disability Access**: Any student requiring accommodations or services due to a disability must contact Service for Student with Disabilities (SSD) in room 181 of the Student Services Center. The phone number is (801) 626-6413.

**Attendance Policy**: Attendance is mandatory. If you have to miss a class for any reason, it is your responsibility to catch up on the lecture notes and find out what you have missed and what assignments are coming up.

**Professionalism Policy**: Per university policy and classroom etiquette; mobile phones, iPods, *etc*. **must be silenced** during all classroom and lab lectures. Those not heeding this rule will be asked to leave the classroom/lab immediately so as to not disrupt the learning environment. Please arrive on time for all class meetings. Students who habitually disturb the class by talking, arriving late, *etc*., and have been warned may suffer a reduction in their final class grade.

**Academic Conduct Policy**: Academic dishonesty in any form will not be tolerated. 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. A description of cheating and possible sanctions may be found in the Student Code (http://www.weber.edu/ppm/Policies/6-22\_StudentCode.html).

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| **Scale (%)** | **Grade** | **Scale (%)** | **Grade** |
| **94 - 100** | A | **74 - 76** | C |
| **90 - 93** | A- | **70 - 73** | C- |
| **87 - 89** | B+ | **67 - 69** | D+ |
| **84 - 86** | B | **64 - 66** | D |
| **80 - 83** | B- | **60 - 63** | D- |
| **77 - 79** | C+ | **0 - 59** | E |

# Basis for Final Grade

|  |  |
| --- | --- |
| **Assessment** | **Percent of Final Grade** |
| **Classwork /  CIL Projects** | 70% |
| **Quizzes and Exams** | 30% |
|  | 100% |

See explanations of Assignments and Exams above

# Schedule

(All the topics, dates, and assignments are tentative, and may be changed at the discretion of the instructor)

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| **Date** | **Course Work and Homework** | **Topics to be Discussed in Class** |
| **08/26 08/28** | History of Computing | Chapter 1 |
| **09/02 09/04** | Computer Ethics and Security | Chapter 2 |
| **09/09 09/11** | Computer Architecture  Project 1 distributed | Chapter 3 |
| **09/16 09/18** | Networks | Chapter 4 |
| **09/23 09/25** | Web Page Design and Development  Project 2 distributed | Chapter 5 |
| **09/30 10/02** | Database Fundamentals | Chapter 6 |
| **10/07 10/09** | Numbering Systems and Data Structures  Project 3 distributed | Chapters 7&8 |
| **10/14 10/16** |  | **Review**  **Midterm Exam on 10/16** |
| **10/21 10/23** | Operating Systems  Project 4 distributed | Chapter 9 |
| **10/28 10/30** | File Structures | Chapter 10 |
| **11/04 11/06** | Human Computer Interface  Project 5 distributed | Chapter 11 |
| **11/11 11/13** | Problem Solving and Debugging | Chapter 12 |
| **11/18 11/20** | Software Engineering  Project 6 distributed | Chapter 13 |
| **11/25 11/27** | **11/27 Thanksgiving Break - No Class** | Chapter 14 |
| **12/02**  **12/04** | Programming Observations | Chapter 15 |
| **12/09 12/11** | **Final Exam Week** | **Final Exam on 12/09** |