

CS1200 Course Syllabus

Course Information

CS1200 Introduction to Computer Science and Software engineering
Fall 2021

Professor Contact Information

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| Name | Ivor Page |
| Office Phone | 972-883-2160 |
| Office Location | ECSS 4.410 |
| Email Address | ivor@utdallas.edu |
| Web Site | www.utdallas.edu/~ivor |
| Office Hours | Wednesday 4:00p – 6:00p |

Course Modality and Expectations

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| Instructional Mode | Traditional classroom |
| Meeting Time | Tuesday/Thursday from 8:00 a.m. to 8:50 a.m. |
| Expectations | You will attend every class on time. You will read the material before coming to class. You will be respectful of your fellow students and the professor. |

General Course Information

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| Prerequisites | First year student in CS, SE or CE |
| Course Description | CS 1200 - Introduction to Computer Science and Software Engineering Introduction to the computing professions; overview of CS and SE curricula, connections with Computer Engineering, other ECS fields and Arts and Technology programs; problem solving and other skills needed to succeed as a CS, SE major. Introduction to quantitative methods; team projects designed to replicate decision processes and problem solving in real-world situations; additional preparatory topics for CS, SE majors. |
| Learning Outcomes | <ul style="list-style-type: none">• Awareness of the areas within CS & SE and curricula at UTD• Understanding of basic logical thinking and problem solving• Capability of high level solution design for simple algorithms• Ability to work as a member of a team |

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| Required Text | <i>Studying Engineering</i> , 5th edition by Raymond B. Landis et al, ISBN 978-0-9793487-2-3 |
| Additional Resources | Your instructor, eLearning course website. |
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Course Policies

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| Grading Criteria | Homework and quizzes 25% Tests (2) 50% Project 25% Attendance: 0% | A+=97 & above A=93-96 A-=90-92 B+=87-89 B=83-86 B-=80-82 C+=77-79 C=73-76 C-=70-72 F=below 70 |
| Make-up Exams | Not allowed | |
| Late Work | 25% reduction in grade per day or partial day for any late submissions unless otherwise stated in the assignment. That is, if the assignment is worth 100 points, you will lose 25 points per day, in addition to points lost because of the quality of work. | |
| Grade Information | I do not curve individual assignments, but I may curve the entire course a little. Do your best work. Grades will be posted on eLearning and you can use the weights above to see where you stand. | |
| Who Grades What | Some assignments may be auto-graded by eLearning. I grade everything else. | |
| Grade Disputes | If you have an issue with any grade, talk with me. All grades become final one week after they are posted. Do not come in at the end of the semester looking for a better grade on the first test. | |
| Classroom Citizenship | Respect for your classmates is necessary at all times. No cell phone usage during class. Turn off the sound and put them off the table and out of reach. Computers are allowed only for taking notes and class-related activities. | |
| Online Quizzes | You may be given quizzes in eLearning. Often, these will be due before the lecture that covers the material. The purpose is to get you to read the material before you hear it in class. These may not be made up if you miss them. | |

Class Attendance

The University's attendance policy requirement is that individual faculty set their course attendance requirements. Computer Science Department policy is that if you miss three consecutive classes your grade will drop one letter grade.

Missing four in a row is failing. Policy for CS1200 is that you lose one point off your final grade for each unexcused absence, up to 5 points.

Regular and punctual class attendance is expected regardless of modality.

Students who fail to attend class regularly are inviting scholastic difficulty.

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Tentative Schedule (Changes will be posted on the Web page)

| Week | Date | Topic | Reading |
|------|--------|--|--------------------|
| 1 | Aug 24 | CS 1200 Basics, Syllabus Overview, Welcome Week Event Highlights | |
| | Aug 26 | SWOT analysis, keys to success | Chapter 1 |
| 2 | Aug 31 | CS vs SE & other engineering professions | Chapter 2 |
| | Sep 2 | Problem Solving, Container ships | Slides |
| 3 | Sep 7 | Academic Dishonesty and Ethics: Guest Speaker | Notes on eLearning |
| | Sep 9 | Problem Solving, Algorithms | Slides |
| 4 | Sep 14 | Problem Solving, Train Swapping, Making Change | Slides |
| | Sep 16 | Learning/Growth Mindset | Chapter 3 |
| 5 | Sep 21 | Learning/Growth Mindset | Chapter 3 |
| | Sep 23 | Making the most of how you are taught | Chapter 4 |
| 6 | Sep 28 | Making learning work for you | Chapter 5 |
| | Sep 30 | Personal Growth | Chapter 6 |
| 7 | Oct 5 | Ethics in Engineering | Slides |
| | Oct 7 | Title IX, Sexual Harrasment | |
| 8 | Oct 12 | Introduction to Design | Slides |
| | Oct 14 | The Software Lifecycle 1 | Slides |
| 9 | Oct 19 | The Software Lifecycle 2 | Slides |
| | Oct 21 | Broadening Your Horizons | Chapter 7 |
| 10 | Oct 26 | Orientation to the Engineering Education System | Chapter 8 |
| | Oct 28 | A Software Group design Project – The Project | Slides |
| 11 | Nov 2 | Effective Thinking – Part 1 | Blocks |
| | Nov 4 | Effective Thinking – Part 2 | Cups and knives |
| 12 | Nov 9 | Effective Thinking – Part 3 | Geometry |
| | Nov 11 | Effective Thinking – Part 4 | The L-Game |
| 13 | Nov 16 | Fibonacci Numbers | Slides |
| | Nov 18 | Geometry | Slides |
| 14 | Nov 22 | Thanksgiving Break | |

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| | 23 | | |
| | Nov 25 | Thanksgiving Break | |
| 15 | Nov 30 | Effective Thinking -- Part 5 | Slides |
| | Dec 2 | Project Presentations | Slides |
| 16 | Dec 7 | Project Presentations | Student Slides |
| | | There is no final exam in this course | |

Off-campus Instruction and Course Activities

Not Applicable.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

Academic Support Resources

The information contained in the following link lists the University’s academic support resources for all students.

Please see <http://go.utdallas.edu/academic-support-resources>.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.