

CSC150: FOUNDATIONS OF COMPUTER SCIENCE

Course Overview: This course has three components: Theory, Practice and Application.

Theory deals with computer concepts. Techniques of high level to machine language translation will be studied with an emphasis on: what it is, how it works, and why it is used.

Practice deals with computer system use and there will be hands on exposure to a number of applications that will be used in assignment sessions.

Application deals with putting concepts to use in order to solve problems. A typical problem will be presented and an acceptable solution will be generated for homework assignments.

Grading:

Tests	29%
Assignments	42%
Term project	10%
Final exam	19%

Attendance:

Attendance is recorded for each discussion or assignment that is submitted. Students are encouraged to log on about 4 times per week and dedicate about 6 hours each week to their coursework.

Assignments:

Project – The final project is an application of computer skills to a real life problem. This project will sharpen student communication and problem solving skills.

Tests – Tests are true/false, multiple choice and short answer.

Quizzes – Quizzes will be taken online via blackboard learn.

Readings – It is expected that you will read and understand text chapters before class discussion.

Assignments – Some assignments require installing a program to your laptop or computer.

Discussion – Class discussion is based upon the text material, but always goes far beyond what is covered in the text.



15 week course
Not self-paced;
assignments
Have weekly
deadlines.



Students can access
their course any time,
from any location.

A laptop or desktop is
required and the ability
to download software
to install.



Students will set
up a university
email & use this
while in the course.

Orientation will be
required prior to
the start of the
course.

COURSE SCHEDULE

CSC 150 Foundations of Computer Science Schedule		
Week	Readings	Graded Assignments
1	Introductory Materials The Syllabus Chap 0: Introduction	Initial Quiz: Due Sunday Assignment 1: Operating System Due Sun Discussion: Post by Wed, Reply by Sunday
Unit 1 Overview		
2	Chap 1 - Introduction to Computer Science Chap 2 - A Computing Environment Chap 3 - Introduction to Computer Systems Optional: Plus IT Assignment 2A, 2B	Assignment 2: Ad Review Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
3	Chap 4 - Grand Ideas Chap 6 - Origin of Comp. Science Optional: Plus IT Assignment 3A, 3B	Assignment 3: Easter Algorithm Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
4	Chap 7 - Word Processing Chap 8 - Information Processing 1 Chap 9 - Information Processing 2 Optional: Plus IT Assignment 4A, 4B	Assignment 4: Document Tables Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
5	Exam review reading	Exam #1: Due Sunday Discussion: Post by Wed, Reply by Sun
Unit 2 User's View		
6	Chap 10 - Human Computer Interaction 1 Chap 11 - Human Computer Interaction 2 Chap 12 - Graphics and Presentations Optional: Plus IT Assignment 6A, 6B	Assignment 6: Presentation Graphics (PowerPoint) Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
7	Chap 13 - Human Computer Interaction 3 Chap 14 - Application Packages 1 Chap 15 - Spreadsheets Optional: Plus IT Assignment 7A, 7B	Assignment 7: Spreadsheet Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
8	Chap 16 - Application Packages 2 Chap 17 - Computer System Errors Chap 18 - Data Communications	Assignment 8: Website Creation Quiz: Due Sunday Discussion: Post by Wed, Reply by Sun
9	Chap 19 - Data Communications 2 Complete note sheets for readings	Practice Exam: Exam #2: Due Sunday Discussion: Post by Wed, Reply by Sun
Unit 3 Functional View		
10	Chap 22 - Algorithms Chap 23 - Processor Architecture 1 Chap 24 - Processor Architecture 2 Optional: Plus IT Assignment 10A, 10B	Discussion: Post by Wed, Reply by Sun
11	Chap 25 - Programming Process Chap 26 - C++ Programming Lab Chap 27 - Programming Languages	Assignment 11: C++ Coding Discussion: Post by Wed, Reply by Sun
12	Chap 28 - Systems Software 1 Chap 29 - Systems Software 2 Chap 30 - Storage Management Issues 1	Assignment 12: Spreadsheet Analytics Discussion: Post by Wed, Reply by Sun
13	Chap 31 - Storage Management Issues 2	Exam #3: Due Sunday Discussion: Post by Wed, Reply by Sun
Unit 4 Foundational View		
14	Chap 34 - Foundations of Computer Science Chap 35 - Foundations Hardware Chap 37 - Foundations Software	Term Project: Due Friday Discussion: Post by Wed, Reply by Sun
15	Chap 39 - Foundations People Chap 40 - Information, Intelligence, Meaning	Assignment 15: Open Office Spreadsheet Final Exam: Due Friday Discussion: Post by Wed, Reply by Sun

This is a sample course schedule and the actual course layout could change each term.