

CS120 - Computer Science I

Course Syllabus

Fall 2014

Instructors:

Terrence Soule JEB 229 tsoule@cs.uidaho.edu, (208)885-7789 Secs 1-3
<http://www.cs.uidaho.edu/~tsoule>
Bob Rinker JEB 235 rinker@cs.uidaho.edu, (208)885-7378, Secs 4-6
<http://www.cs.uidaho.edu/~rinker>

Lab Instructors:

Josh Rubini rubi4714@vandals.uidaho.edu Secs 1-3
Heyan Huang heyanh@vandals.uidaho.edu Secs
Anup Chitrakar chit8942@vandals.uidaho.edu Sec

Text:

A Project Based Introduction to C++, Terrence Soule, Kendall-Hunt, 2014
ISBN 9781465251145, available from the following website:
<http://www.kendallhunt.com/store-product.aspx?id=268763>

Week	Day	Topic	Text/Ref
1	Aug 25	M Introduction, orientation, history	Chap 1
	27	W Basic program structure, variables	Chap 1, 2
	29	F Types, basic I/O, expressions	Chap 2
	Sep 1	M **** Labor Day - NO Classes ****	
2	3	W Arithmetic expressions, computer arithmetic	Chap 2
	5	F Strings	Chap 2
3	8	M Conditional statements, - if	Chap 2
	10	W Decision making, switch	Chap 2
	12	F Iteration, do-while, while, for	Chap 3
4	15	M Loops - examples and techniques	Chap 3
	17	W Functions - basic concepts	Chap 4
	19	F Functions - return values	Chap 4
5	22	M Functions - parameters	Chap 4
	24	W structs	Inter 3
	26	F classes	Chap 5
6	29	M classes	Chap 5
	Oct 1	W classes	Chap 5
	3	F *** Test 1 ***	
7	6	M classes	Chap 5
	8	W Files - streams	Chap 5
	10	F Files - streams	Chap 5
8	13	M Arrays	Chap 6
	15	W Arrays	Chap 6
	17	F Arrays	Chap 6
9	20	M Arrays and classes	Chap 6
	22	W Arrays and functions	Chap 6
	24	F strings - the C++ string class	Chap 5
10	27	M Types - internal representations	App B
	29	W Base conversion	App B
	31	F 2's complement	App B
11	Nov 3	M Dynamic memory - pointers	Chap 7
	5	W Dynamic memory	Chap 7
	7	F Dynamic arrays	Chap 7
12	10	M Linked lists	Chap 8
	12	W Linked lists	Chap 8
	14	F *** Test 2 ***	

Week	Day	Topic	Text/Ref
13	17 M	Recursion	Chap 8
	19 W	Recursion	Chap 8
	21 F	Searching - linear, binary	Notes
	Nov 24 - 28	****Thanksgiving Break - NO Classes****	
14	Dec 1 M	Sorting	Notes
	3 W	Sorting - "fast" sorts	Notes
	5 F	Big 'O' Analysis	Notes
15	8 M	Problem solving techniques	Notes
	10 W	Problem solving techniques	Notes
	12 F	Final Exam Review	

Final: To be Determined

Grading:

Two Hour Tests (15% ea)	30%
Final Exam	20%
Quizzes	15%
Assignments	15%
Labs	20%
Total	<u>100%</u>

The letter grade you receive from the course will be determined as follows:

90%	-	100%	A
89.9%	-	80%	B
79.9%	-	70%	C
69.9%	-	60%	D
59.9%	-	0%	F

The instructor reserves the right to adjust these percentages lower if deemed necessary.

Disability Support Services Reasonable Accommodations Statement:

Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through Disability Support Services located in the Idaho Commons Building, Room 306 in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course.

- 885-6307
- email at <dss@uidaho.edu>
- website at <www.uidaho.edu/dss>