

CS151 - Computer Science II

Course Syllabus

Spring 2022

Instructor: Bob Rinker, HED 202, (208)885-7378, rinker@uidaho.edu or rerinker@NIC.edu
Lab Instructor: Ekaterina Miller, STR 309, (208)676-7154, evmiller@NIC.edu
Class website: www.cs.uidaho.edu/~rinker/cs151
Texts: *Starting Out With C++ Early Objects*, Gaddis, Walters, & Muganda, Pearson, 10th Edition, ISBN: 978-0-13-523500-3
 ONLINE: *Data Structures & Algorithm Analysis*, Shaffer, Available from <http://people.cs.vt.edu/~shaffer/Book/C++3elatest.pdf>
 ONLINE: *Open Data Structures (in C++)*, Morin, Available from <https://opendatastructures.org/ods-cpp.pdf>

Wk	Day		Topic	Text/Ref	
1	Jan	10	M	Introduction, C++ Review	
		12	W	C++ Review - Arrays	Chap 8
		14	F	C++ Review - Pointers	Chap 10
2		17	M	*** MLK/Human Rights Day - No Classes ***	
		19	W	Arrays and Pointers	Chap 10
		21	F	Strings	Chap 12
3		24	M	Strings	Chap 12
		26	W	C++ String Class	Chap 12
		28	F	File I/O	Chap 13
4	Feb	31	M	File I/O	Chap 13
		2	W	Induction	Chap 14
		4	F	Recursion	Chap 14
5		7	M	Recursion	Chap 14
		9	W	Linked Lists	Chap 18
		11	F	Linked Lists	Chap 18
6		14	M	Linked Lists	Chap 18
		16	W	Linked Lists	Chap 18
		18	F	**** Exam 1 ****	
7		21	M	*** Presidents Day - No Classes ***	
		23	W	Stacks	Chap 19
		25	F	Stacks	Chap 19
8	Mar	28	M	Queues	Chap 19
		2	W	Queues	Chap 19
		4	F	Binary Trees	Chap 20
9		7	M	Binary Trees	Chap 20
		9	W	Searching	Chap 9
		11	F	Searching	Chap 9
10		14	M	Order Analysis	
		16	W	Sorting	Chap 9
		18	F	Sorting	Chap 9
11		21	M	Sorting	Chap 9
		23	W	Hashing	Chap 9
		25	F	Hashing	Chap 9
		Mar 28 - Apr 1	****Spring Break - NO Classes****		
12	Apr	4	M	Trees	Chap 20
		6	W	Trees	Chap 20
		8	F	**** Exam 2 ****	

Wk	Day		Topic	Text/Ref	
13	Apr	11	M	Multiway Trees	Chap 20
		13	W	Heaps, heap sort	
		15	F	Polymorphism	Chap 15
14		18	M	Polymorphism, Virtual functions	Chap 15
		20	W	Graphs	
		22	F	Graphs	
15		25	M	Graphs	
		27	W	Classes	Chap 11
		29	F	Classes and OOP	Chap 11
16	May	2	M	STL	Chap 17
		4	W	STL	Chap 17
		6	F	Final Exam Review	

Final: Wednesday, May 11, Noon-2:00 pm

Grading:

Two Hour Tests (15% ea)	30%
Quizzes	15%
Final Exam	20%
Lab Assignments	30%
Award for completing all projects, participation	5%
Total	<u>100%</u>

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

100%	-	93%	A
92.9%	-	90%	A-
89.9%	-	87%	B+
86.9%	-	83%	B
82.9%	-	80%	B-
79.9%	-	77%	C+
76.9%	-	73%	C
72.9%	-	70%	C-
69.9%	-	67%	D+
66.9%	-	63%	D
62.9%	-	60%	D-
59.9%	-	0%	F

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