

Tentative Syllabus

This is a tentative syllabus for the course. It will be updated during the semester to reflect our actual progress in the course.

Class	Date	Topic	Homework
<i>Week 1</i>			
<i>Lab1</i>	T 9/7	Linux/Emacs/Java	
Lec1	R 9/9	course overview; Linux, Java, etc.; game of Set; administrivia	PS1 out (Set game; text)
<i>Week 2</i>			
Lec2	M 9/13	text processing: characters, strings, string buffers	
<i>Lab2</i>	T 9/14	debugging	
Lec3	R 9/16	arrays and vectors 1	PS1 due at midnight; PS2 out (arrays and vectors)
<i>Week 3</i>			
Lec4	M 9/20	(Stella) arrays and vectors 2	
<i>Lab3</i>	T 9/21	arrays and vectors	
Lec5	R 9/23	enumerations 1	
	F 9/24		PS2 due; PS3 out (enumerations)
<i>Week 4</i>			
Lec6	M 9/27	enumerations 2	
<i>Lab4</i>	T 9/28	enumerations	
Lec7	T 9/30	I/O; exceptions; anonymous classes	
	F 10/1		PS3 due; PS4 out (lists)
<i>Week 5</i>			
Lec8	M 10/04	object lists (immutable) and sorting	
<i>Lab5</i>	T 10/05	immutable lists	
Lec9	R 10/07	object lists (mutable) and sorting	

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<i>Week 6</i>			
	M 10/11	Fall Break: no lecture	
<i>Lab6</i>	T 10/12	mutable lists	
Lec10	W 10/13	(Monday schedule) ADTS; multiple implementations; interfaces vs. abstract classes	
Lec11	R 10/14	stack, queue & pqueue interfaces; stack implementations	
	F 10/15		PS4 due; Exam 1 out
<i>Week 7</i>			
Lec12	M 10/18	queues and pqueues: linear implementations	
<i>Lab7</i>	T 10/19	ADT implementations	
Lec13	R 10/21	inheritance; collection hierarchy	
	F 10/22		Exam 1 due; PS5 out (linear implementations)
<i>Week 8</i>			
Lec14	M 10/25	binary trees	
<i>Lab8</i>	T 10/26	collection hierarchy	
Lec15	R 10/28	project overview; binary search trees	
	F 10/29		PS5 due; PS6 out (tree implementations)
<i>Week 9</i>			
Lec16	M 11/01	set, bag, & table interfaces	
<i>Lab9</i>	T 11/02	trees	
Lec17	R 11/04	set, bag, & table implementations	
	F 11/05		Project Phase 1 due: project proposal
<i>Week 10</i>			
Lec18	M 11/08	graphical user interfaces (GUIs) 1	
	T 11/09	Tanner conference: no lab	
	W 11/10		PS6 due; Exam 2 out
Lec19	R 11/11	GUIs 2	

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<i>Week 11</i>			
Lec20	M 11/15	putting it all together: sketchpad	
Lab10	T 11/16	GUIs	
	W 11/17		Exam 2 due
Lec21	R 11/18	asymptotic complexity 1	
<i>Week 12</i>			
Lec22	M 11/22	asymptotic complexity 2	
Lab11	T 11/23	asymptotic complexity	Project Phase 2 due: program outline
	R 11/25	Thanksgiving: no lecture	
<i>Week 13</i>			
Lec23	M 11/29	2-3 trees	PS7 out (efficient data structures)
Lab12	T 11/30	efficient data structures	
Lec24	R 12/02	heaps	
	F 12/03		Project Phase 3 due: detailed program skeleton
<i>Week 14</i>			
Lec25	M 12/06	hash tables	
Lab13	T 12/07	informal presentations in lab	Project Phase 4 due: informal presentations
Lec26	R 12/09	Where to go from here?	
Lec27	F 12/10		PS7 due
<i>Week 15</i>			
	T 12/14		Project Phase 5 due: code review
<i>Week 16</i>			
	T 12/21		Project Phase 6 due: demonstration and final program