

			Lecture Topic	HW	Project
1	9/2/20	W	Introduction to SW Engineering – Course Overview		
2	9/9/20	W	The Six-Level Computer and Simplified Assembly	HW1 out	
3	9/14/20	M	C++ Introduction: compiled language, syntax, data types, variables, assignment, operators, casting		
4	9/16/20	W	C++ Introduction: control flow (if, switch, while and for loops, nested loops)		
5	9/21/20	M	Control flow (cont'd); Functions: defining, invoking (calling), call stack, overloading	HW1 due - HW2 out	
6	9/23/20	W	Functions: prototyping, header files, Recursion. Basic string type.		
7	9/28/20	M	Functions (cont'd): pass by value, pass by reference, scope, inline, macros		
8	9/30/20	W	Arrays: creating, using, arguments, caveats; Basic file I/O; Pointers: declaring, indirection (dereference)	HW2 due - HW3 out	
9	10/5/20	M	Pointers: const, arrays as pointers (array vs. pointer), returning pointers, examples		
10	10/7/20	W	Pointers: Review, examples; dynamic memory allocation.	HW 3 due - HW 4 out	
	10/12/20	M	<i>Columbus Day Holiday</i>		
11	10/13/20	T (Substitute M)	Mid-Semester Review		
12	10/14/20	W	Objects: object oriented programming, class design, constructor, dot operator, encapsulation (accessor/mutator), scope	HW 4 due	
13	10/19/20	M	Objects: more on OOP, examples		
14	10/21/20	W	Objects: pointers to objects (this), dynamic creation, destructor, examples of classes and pointers	HW 5 out	
15	10/26/20	M	Objects: copy constructor (deep/shallow), operator overloading, friend class/functions		
16	10/28/20	W	Objects: Inheritance, polymorphism, virtual functions part 1		
17	11/2/20	M	Objects: Inheritance, polymorphism, virtual functions part 2	HW 5 due - HW 6 out	
18	11/4/20	W	Objects: Templates (introduction and vectors)		
19	11/9/20	M	More on vectors; more on File I/O		Project Kickoff
20	11/11/20	W	Exceptions	HW 6 due - HW 7 out	
21	11/16/20	M	C vs. C++		
22	11/18/20	W	Debugging techniques and approaches		
23	11/23/20	M	Data Structures, STL	HW 7 due	
	11/25/20		<i>Thanksgiving Recess</i>		
24	11/30/20	M	Data Structures, STL (cont'd)	HW 8 out	
25	12/2/20	W	Big O Notation, Sorting		
26	12/7/20	M	Project Demos		Project Report Due
27	12/9/20	W	Final Review	HW 8 due	
	12/15/20	T	FINAL EXAM (3pm-5pm)		

***Schedule is subject to change.**