CS124 Fall 2023 Schedule

Week	Date	Class Number	Subject	Readings	Assignment
1	M 8/28	1	Course overview and introduction Getting started in Python Data types and expressions Strings and lists	ThinkCSpy 1.1-1.10 ThinkCSpy 2.1-2.6, 2.8-2.9 ThinkCSpy 10.1-10.4	PS1 due FRI 9/1
	W 8/30	2	Functions, Parameters, and Return Values Local and global variables; the runtime stack Making decisions (conditional execution)	ThinkCSpy 6.1-6.4 ThinkCSpy 7.1-7.8	PS2 due SAT 9/2
	Lab		Demo Gradescope. Work on PS1 and PS2.		
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2	M		HOLIDAY - NO CLASS		
	W	3	Introduce Recursion	ThinkCSpy 16.1-16.3	PS3 due FRI
	Lab		**QUIZ 1**, Work on PS3 and PS4.		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
3	W	4	Jupyter Notebook, part 1 Introduce Debugger		PS4 due SAT
	W	5	Functions and recursion (cont.) Higher-order functions List comprehensions	ThinkCSpy 10.22	PS5 due SAT
	Lab		Work on PS5.		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
4	M	6	More list comprehensions; lists of lists Encryption and decryption Algorithm design	ThinkCSpy 10.22	PS6 due SAT
	W	7	Jupyter Notebook, part 2		PS7 due SAT
	Lab		**Quiz 2**, Work on PS6 and PS7.		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
5	M	8	Loops and imperative programming Cumulative computations Nested loops	ThinkCSpy 4.4-4.5 ThinkCSpy 8.1-8.3	PS8 due FRI
	W	9	Jupyter Notebooks, Part 3		PS9 due SAT
	Lab		Work on PS8 and PS9		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
6	M	9	Nested Loops Design using loops	ThinkCSpy 8.1-8.3	PS10 due FRI
	W	10	References; mutable vs. immutable data 2-Dimensional Lists	ThinkCSpy 10.8	PS11 due SAT
	Lab		**Quiz 3**, Work on PS10 and PS11		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
7	M	11	Object-oriented programming (OOP)	ThinkCSpy 17.1-17.10	PS12 due FRI
	W	12	File Processing Dictionaries	ThinkCSpy 11.1-11.4 ThinkCSpy 12.1-12.2	PS13 due SAT
	Lab		Work on PS12 and PS13		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
8	M		HOLIDAY - NO CLASS		
	W	13	Object Orientation (continued)	ThinkCSpy 19.1-19.5	PS14 due SAT
	Lab		Work on PS14		

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9	M	14	Mid-Term Project: Emergence		Mid-Term Project due SAT
	W	15	Mid-Term Project: Emergence		Mid-Term Project due SAT
	Lab		**Quiz 4**, Work on Midt-term Project		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
10	M	16	Object Orientation (continued) Graphics and GUI	ThinkCSpy 19.1-19.5	PS15 due FRI
	W	17	Inheritance Artificial Intelligence		PS16 due SAT
	Lab		Work on PS15 and PS16		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
11	M	18	Inheritance Artificial Intelligence		PS17 due FRI
	W	19	Search Algorithms		PS18 due SAT
	Lab		**Quiz 5**, Work on PS17 and PS18		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
12	M	20	Search Algorithms		PS19 due
	W	21	Search Algorithms		PS20 due
	Lab		Work on PS19 and PS20		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
13	M	22	Search Algorithms		PS21 due
	W	23	Search Algorithms Final Project Introduction and Overview		Final Project proposal due MON
	Lab		**Quiz 6**, Work on PS21		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
14	M	24	Final Project - Work on Final Project		Final Project due
	W	NO CLASS	NO CLASS - HOLIDAY BREAK		
	LAB		NO CLASS - HOLIDAY BREAK		
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
15	M	25	Final Project - Work on Final Project		
	W	26	Final Project - Work on Final Project		
	LAB				
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
16	M	27	Final Project Presentations		Final Project Reviews
Week	**Date**	**Class Number**	**Subject**	**Readings**	**Assignment**
FINAL EXAM	TBA		**Final Exam -** To be scheduled during final exam days.		