

Weekly Schedule Feedback Office Hours Syllabus Staff Piazza Resources Code

Fall 2020

Instructors: Hany Farid, John DeNero

Monday, December 7

- Homework 10 extended, due Sunday 12/13.
 - Complete the 61a online survey.
 - Complete the campus course evaluation.
 - Vote for your favorite recursive scheme art.
- o If at least 1400 students do all three, then everyone who completed the online survey will get an extra credit point. • Final exam 3pm-6pm Thursday 12/17.

CS 61A: Structure and Interpretation of Computer Programs

- The final exam will have a similar format to Midterm 2: reverse environment diagrams and fill-in-the-blank code completion.
 - You do not necessarily need to take the final to pass; 175 points are required for a P or C- grade. Check howamidoing. o Textbook content: Sections 1.1-3.5 and 4.3 of Composing Programs, excluding 1.6.5, 2.3.7, 2.4.11-13, 2.6, 2.8, 2.9.3, 3.5.4, and 4.3.6.
 - o Lecture content: All lectures not marked optional. o Proctoring details (and exemption requests) will be posted to Piazza during RRR week.
 - o You can use any number of pages of scratch paper and notes that you create yourself.

 - o If you want to store your notes electronically, you must use a Google Doc and give edit access to cs61a@berkeley.edu. • You can use cs61a.org, the 61A Piazza, code.cs61a.org, and tutor.cs61a.org.
 - o You cannot use the rest of the internet. No search engines. No Q&A sites. No Reddit. o You cannot communicate or collaborate with anyone else.
- Request an alternate exam time by Friday 12/11 if:
- o The exam would start between 8pm and 6am (inclusive), You have 3 finals on the same day, or
- You have another exam at the same time. • Staff, HKN, and CSM review sessions next week.
- Orientation & Exam Prep recordings are stored here.
- Week 15 Class Material

• Lecture 36: Macros (optional) Video Q&A full 1pp 8pp 36.scm

- Lecture 37: Final Examples Video Q&A full 1pp 8pp 37.py Lecture 38: Conclusion Video Q&A
- Week 15 Readings:
- Disc 14: Final Review

Shayna's SQL Slides (Fall 2020)

Week 15 Resources

- Jade's SQL Guide (Spring 2020)
- Minilecture: SQL Intro (Fall 2017) Michael's SQL Review Slides (Summer 2017)
- (Spring 2016) Colin's SQL Worksheet Solutions Kevin's SQL Slides (Fall 2015)
- Andrew's Quick Guide to SQL (Fall 2015)

Week	Data	Locture	Textbook	Orientation Links	Lab and Discussion Links	Homowork & Droinet
Week	Date Wed	Computer Science Video full	Textbook	Orientation Links 2pm 2pm-NPE 6pm	Lab and Discussion Links Lab 00: Getting Started	Homework & Project
1	8/26 Fri	1pp 8pp 01.py Functions Video Q&A full		7pm-NPE 9pm	© Tue 9/1	HW 01: Variables & Functions,
	8/28	1pp 8pp 02.py	Ch. 1.1 Ch. 1.2			Control © Thu 9/3
	Mon 8/31	Control Video Q&A full 1pp 8pp 03.py	Ch. 1.3 Ch. 1.4 Ch. 1.5	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 01: Variables & Functions, Control © Tue 9/1	
2	Wed 9/2	Higher-Order Functions Video Q&A full 1pp 8pp 04.py	Ch. 1.6	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 01: Environment Diagrams, Control	Hog © Fri 9/11
	Fri 9/4	Environments Video Q&A full 1pp 8pp 05.py	Ch. 1.6	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 02: Higher-Order Functions, Lambda Expressions © Tue 9/8	
	Mon 9/7	No Lecture: Labor Day				
3	Wed	Design Video Q&A full 1pp		2pm 2pm-NPE 6pm	Disc 02: Higher-Order	
	9/9 Fri	8pp 06.py Function Examples Video Q&A		7pm-NPE 9pm	Functions, Self Reference	
	9/11 Mon	full 1pp 8pp 07.py				
	9/14 Wed	Midterm 1 Recursion Video Q&A full		2nm NDE 6nm		
4	9/16	1pp 8pp 08.py	Ch. 1.7	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 03: Recursion	Hog Contest © Mon 9/21
	Fri 9/18	Tree Recursion Video Q&A full 1pp 8pp 09.py	Ch. 1.7			HW 02: Recursion © Thu 9/24
	Mon 9/21	Containers Video Q&A full 1pp 8pp 10.py	Ch. 2.1 Ch. 2.3	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 04: Recursion, Tree Recursion, Python Lists	
5	Wed	Data Abstraction Video Q&A		2pm 2pm-NPE 6pm	© Tue 9/22 Disc 04: Tree Recursion, Python	Coto O Fri 10/2
	9/23 Fri	full 1pp 8pp 11.py Trees Video Q&A full 1pp	Ch. 2.2	7pm-NPE 9pm	Lists, Data Abstraction	Cats © Fri 10/2
	9/25	8pp 12.py	Ch. 2.3		Lab OF Data Abatus dia Trans	
	Mon 9/28	Binary Numbers (optional) Video Q&A full		2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 05: Data Abstraction, Trees © Tue 9/29	
6	Wed 9/30	Circuits (optional) Video Q&A full		2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 05: Trees, Binary Numbers	
	Fri 10/2	Mutable Values Video Q&A full 1pp 8pp 15.py	Ch. 2.4			HW 03: Trees, Data Abstraction © Thu 10/8
	Mon 10/5	Mutable Functions Video Q&A full 1pp 8pp 16.py	Ch. 2.4	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 06: Nonlocal, Mutability © Tue 10/6	
7	Wed	Iterators Video Q&A full 1pp	Ch. 4.2	2pm 2pm-NPE 6pm	Disc 06: Nonlocal, Mutability,	
	10/7 Fri	Objects Video Q&A full 1pp	Ch. 2.5	7pm-NPE 9pm	Iterators	HW 04: Nonlocal, Iterators
	10/9	Inhoritance (Video Cost) [6.11]		David Note Comp	Lab 07: Object-Oriented	© Thu 10/15
	Mon 10/12	Inheritance Video Q&A full 1pp 8pp 19.py	Ch. 2.5	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Programming, Iterators © Tue 10/13	Ants © Fri 10/23
8	Wed 10/14	Representation Video Q&A full 1pp 8pp 20.py	Ch. 2.7	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 07: Object-Oriented Programming	
	Fri	Composition Video Q&A full	Ch. 2.9			HW 05: Object-Oriented Programming, Linked Lists, Trees
	10/16	1pp 8pp 21.py Efficiency (optional) Video				© Mon 10/26
	Mon 10/19	Q&A full 1pp 8pp 22.py 22.ipynb	Ch. 2.8	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 08: Linked Lists, Mutable Trees © Tue 10/20	
9	Wed 10/21	Decomposition Video Q&A full 1pp 8pp 23.py 23.zip		2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 08: Linked Lists, Trees, Representation	
3	Fri 10/23	Data Examples Video Q&A full 1pp 8pp 24.py				
	Sat	тип трр орр 24.ру			Lab 09: Midterm Review	
	10/24 Mon	Users (optional) Video Q&A		2pm 2pm-NPE 6pm	© Tue 10/27	
	10/26 Wed			7pm-NPE 9pm		
10	10/28 Fri	Midterm 2 Ethical AL & Data (optional)				
	10/30					
	Mon 11/2	Scheme Video Q&A full 1pp 8pp 27.scm	Ch. 3.1 Ch. 3.2	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 10: Scheme © Wed 11/4	HW 06: Scheme © Thu 11/5
11	Wed 11/4	Exceptions Video Q&A full 1pp 8pp 28.py	Ch. 3.3	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 10: Scheme, Scheme Lists	
	Fri 11/6	Calculator Video Q&A full 1pp 8pp 29.scm 29.zip	Ch. 3.4			HW 07: Scheme Lists © Thu 11/12
	Mon	Interpreters Video Q&A full	Ch. 3.5	2pm 2pm-NPE 6pm	Lab 11: Interpreters	Scheme © Tue 11/24 Scheme Challenge Version
12	11/9 Wed	1pp 8pp		7pm-NPE 9pm	© Tue 11/10	© Tue 11/24
12	11/11	No Lecture: Veterans Day			Disc 11: Interpreters	
	Fri 11/13	Declarative Programming Video Q&A full 1pp 8pp 31.sql	Ch. 4.3			HW 08: Scheme © Thu 11/19
	Mon 11/16	Tables Video Q&A full 1pp 8pp 32.sql	Ch. 4.3	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 12: SQL © Tue 11/17	Scheme Contest © Mon 11/30
13	Wed 11/18	Aggregation Video Q&A full 1pp 8pp 33.sql	Ch. 4.3	2pm 2pm-NPE 6pm 7pm-NPE 9pm	Disc 12: SQL	
	Fri	Databases (optional) Video Q&A full 1pp 8pp 34.py	Ch. 4.3			HW 09: SQL © Thu 12/3
	11/20 Mon	34.sql Tail Calls (optional) Video Q&A		2pm 2pm NDE C		
	11/23	full 1pp 8pp		2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 13: More SQL © Tue 11/24	
14	Wed 11/25	No Lecture: Thanksgiving				
	Fri 11/27	No Lecture: Thanksgiving				
	Mon 11/30	Macros (optional) Video Q&A full 1pp 8pp 36.scm		2pm 2pm-NPE 6pm 7pm-NPE 9pm	Lab 14: Final Review © Tue 12/1	
15	Wed	Final Examples Video Q&A		2pm 2pm-NPE 6pm	Disc 14: Final Review	
	12/2 Fri	full 1pp 8pp 37.py Conclusion Video Q&A		7pm-NPE 9pm		HW 10: Finale © Sun 12/13
	12/4	Einel (2, C. D. A)				Scheme Gallery © Sun 12/13

CS 61A	Resources	Policies
Weekly Schedule	Studying Guide	Assignments
Office Hours	Debugging Guide	Exams
Staff	Composition Guide	Grading

Thu 12/17 Final (3-6 PM)