

Northeastern University

Khoury College of Computer Sciences

Fall 2021

CLASS SCHEDULE

Note: Topics may change, but due dates for homeworks, exams, and so on probably will not. Homeworks are assigned on Tuesday, and they are due the following Monday at 9:00pm (unless otherwise noted). Quizzes will be taken during the lecture period, but can also be taken remotely (with the same time limit) if needed — **do not come to class if you are not feeling well.**

Week	Reading	Topic(s)	Due	Materials
Fri, Sep 10	1 ; 2.1 - 2.3	Welcome to DS2000 <ul style="list-style-type: none"> Orientation Getting set up First program 		Handouts <ul style="list-style-type: none"> Variables and I/O How to Approach a Programming Assignment
Tue, Sep 14 - Fri, Sep 17	9.1 - 9.3	Dealing with Data <ul style="list-style-type: none"> Input and output Handling files Text and numbers Data vis 	Quiz 1 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> Reading Files Matplotlib Intro
Tue, Sep 21 - Fri, Sep 24	3.1 - 3.7	Making Decisions <ul style="list-style-type: none"> Booleans Conditionals Math and randomness Iteration (while loops) 	HW 1 (due Mon, Sep 20) Quiz 2 (in class Fri)	Handouts <ul style="list-style-type: none"> Conditionals While Loops
Tue, Sep 28 - Fri, Oct 01	5.1 - 5.6	Lists and Loops <ul style="list-style-type: none"> Lists (intro) Iteration (for loops) Ethics of data sources 	HW 2 (due Mon, Sep 27) Quiz 3 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> Lists
Tue, Oct 05 - Fri, Oct 08	5.7 - 5.8 ; 4.1 - 4.2	Intro to Functions <ul style="list-style-type: none"> Lists (cont'd) Sequence operators Functions (intro) 	HW 3 (due Mon, Oct 04) Quiz 4 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> Writing Functions
Tue, Oct 12 - Fri, Oct 15	4.3 - 4.11	Fun with Functions <ul style="list-style-type: none"> Functions (cont'd) Scope CSV files 	HW 4 (due Mon, Oct 11) Quiz 5 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> Local Scope Testing Functions
Tue, Oct 19 - Fri, Oct 22	5.16 - 5.18 6.1 - 6.2 ; 9.5	The Second Dimension Dictionaries <ul style="list-style-type: none"> Ethical algorithms 2D Lists Dictionaries 	HW 5 (due Mon, Oct 18) Quiz 6 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> 2D Lists Dictionaries

Week	Reading	Topic(s)	Due	Materials
		<ul style="list-style-type: none"> Keys and Values 		
Tue, Oct 26 - Fri, Oct 29		MIDTERM REVIEW MIDTERM	HW 6 (due Mon, Oct 25) Midterm Review Midterm (in-class or remotely Fri)	
Tue, Nov 02 - Fri, Nov 05	8.1 - 8.9	Untangling Strings <ul style="list-style-type: none"> Strings and text processing Cleaning data 	Quiz 7 (in-class or remotely Fri)	Handouts <ul style="list-style-type: none"> Strings
Tue, Nov 09 - Fri, Nov 12	10.1 - 10.4	Classes and Objects <ul style="list-style-type: none"> Intro to classes Objects Methods 	HW 7 (due Mon, Nov 08)	Handouts <ul style="list-style-type: none"> Objects
Tue, Nov 16 - Fri, Nov 19	13.1 - 13.8	OOPing and APIs <ul style="list-style-type: none"> Objects cont'd JSON files API calls Requests module 		Handouts <ul style="list-style-type: none"> JSON
Tue, Nov 23 - Fri, Nov 26	8.13; 7.14	Pandas (the module) <ul style="list-style-type: none"> Data with Pandas Dataframes 		
Tue, Nov 30 - Fri, Dec 03		Machine Learning Glimpse <ul style="list-style-type: none"> Supervised learning Distances K Nearest Neighbors 		
Tue, Dec 07		Wrapping up		

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