## M1-04: DataFrames: Row Selection and Pandas "Cheat Sheet"

Part of the "Basics of Data Science with Python" Learning Badge

Video Walkthrough: https://discovery.cs.illinois.edu/m1-04/

## **Course Catalog Dataset - Part 2**

Continuing to use the same "Course Catalog" dataset, with the following structure:

Year	Term	YearTerm	Subject	Number	Title	•••	
2020	Fall	2021-fa	AAS	100	Intro Asian American Studies	•••	

Dataset URL: https://waf.cs.illinois.edu/discovery/course-catalog.csv

**Puzzle #3:** Using the course catalog dataset that is stored in the DataFrame named **df**, complete the following puzzles:

(a):	Python:	
	Description:	Select the <b>first ten courses</b> that are listed in the DataFrame.
(b):	Python:	
	Description:	Select <b>seven courses</b> with the largest course number.
(c):	Python:	
	Description:	Randomly select 1% (0.01) of all the courses offered at Illinois.

**Puzzle #4:** Reversing the role and continuing to use the cheat sheet, describe the purpose of the following Python code when used with the course catalog dataset:

(a):	Python:	df.iloc[100:110]
	Description:	
(b):	Python:	df[df.Subject == "MATH"]
	Description:	