



MI-07: DataFrame: Conditionals

Part of the “Basics of Data Science with Python” Learning Badge

Video Walkthrough: <https://discovery.cs.illinois.edu/m1-07/>

Conditionals and Course Catalog Dataset

The “Course Catalog Dataset” is another dataset we saw earlier, listing every course offered at The University of Illinois at Urbana-Champaign:

Year	Term	YearTerm	Subject	Number	Title	...
2020	Fall	2020-fa	AAS	100	Intro Asian American Studies	...
...						
2020	Fall	2020-fa	STAT	100	Statistics	...
2020	Fall	2020-fa	STAT	107	Data Science Discovery	...
...						

Puzzle #3: At the University of Illinois, the hundred-value in a course number denotes the “level” of the course. Specifically, courses with the numbers 100-199 are “freshman-level” courses; 400-499 are “senior-level courses”, 500-599 are “graduate-level courses”, and 600-699 are “professional” courses. Let’s explore a subset of courses based on their level:

(a):	Python:	
	Description:	Selects all courses offered at Illinois that are “freshman-level”.
(b):	Python:	
	Description:	Selects all courses offered at Illinois that are “professional” courses.
(c):	Python:	
	Description:	Selects all “senior-level” MATH courses offered at Illinois.
(d):	Python:	
	Description:	Selects all “graduate-level” CS courses offered at Illinois.
(e):	Python:	
	Description:	Selects all “sophomore (200)-level” STAT courses offered at Illinois.