

IS2053-Fall 2022 – Lab03: Class Schedules

Complete and upload the following program to CodeGrade through BlackBoard as a Python file named **lab3.py**. Note, you are required to also submit the python file named **progcourses.py** which contains your class definitions.

Since it is time to start planning for next semester, write a program that displays information for the programming courses offered by the IS department.

Program Objectives:

- Procedural and Object-Oriented Programming
- Classes
- Working with Instances
- Sequences
- Finding Items in Lists with the in Operator
- List Methods and Useful Built-in Functions
- Processing Lists

Your program will:

1. Create a python file named progcourses.py for the class CourseSect.
2. The CourseSect class will contain set and get functions, as well as an initializer for the following data items:
 - CRN
 - Subject
 - Course
 - Section
 - Title
 - Credit Hours
 - Meeting Time
 - Course Type
 - Room
 - Instructor
 - Campus

CourseList.xlsx is provided in the BlackBoard assignment page that includes all data.

3. Initialize a blank list to hold the course objects.
4. Instantiate all CourseSect objects and append them to your list.
5. Print out a brief list of courses that includes CRN, Course/Section, Course Title, and Instructor. (See example below)

6. Prompt the user to enter a CRN number.
 - If the CRN is not present, print an error message and exit the program.
 - If the CRN is good, print a header that references the CRN, and prints all of the course details (exactly like shown below).

Your formatted output should look EXACTLY like the following:
If an invalid CRN is entered:

CRN	Course/Sect	Course Title	Instructor
36653	IS-2053-001	Program Lang I with Scripting	Bachura, Eric
36657	IS-2053-002	Program Lang I with Scripting	Villarreal, Marco
36661	IS-2053-003	Program Lang I with Scripting	Villarreal, Marco
36667	IS-2053-004	Program Lang I with Scripting	Castaneda, Robert
36668	IS-2053-005	Program Lang I with Scripting	Castaneda, Robert
36678	IS-2053-006	Program Lang I with Scripting	Bhatt, Paras
36683	IS-2053-007	Program Lang I with Scripting	Burres, Ian
36685	IS-2053-008	Program Lang I with Scripting	Burres, Ian
38272	IS-2053-009	Program Lang I with Scripting	Quebodeaux, Devin
36690	IS-2053-ON1	Program Lang I with Scripting	Newsom, John
36692	IS-2053-ON2	Program Lang I with Scripting	Newsom, John
36694	IS-2063-001	Program Lang II with Java	Shepherd, Linda
36695	IS-2063-002	Program Lang II with Java	Shepherd, Linda
36696	IS-2063-003	Program Lang II with Java	Shepherd, Linda
38273	IS-2063-004	Program Lang II with Java	Shepherd, Linda
38274	IS-2063-005	Program Lang II with Java	Castaneda, Robert
39641	IS-2063-006	Program Lang II with Java	Joshuva, Justin
36698	IS-2063-ON1	Program Lang II with Java	Castaneda, Robert
38277	IS-2063-ON2	Program Lang II with Java	Joshuva, Justin

Enter a CRN number: 12345

CRN #12345 does not exist.

If a valid CRN is entered:

CRN	Course/Sect	Course Title	Instructor
36653	IS-2053-001	Program Lang I with Scripting	Bachura, Eric
36657	IS-2053-002	Program Lang I with Scripting	Villarreal, Marco
36661	IS-2053-003	Program Lang I with Scripting	Villarreal, Marco
36667	IS-2053-004	Program Lang I with Scripting	Castaneda, Robert
36668	IS-2053-005	Program Lang I with Scripting	Castaneda, Robert
36678	IS-2053-006	Program Lang I with Scripting	Bhatt, Paras
36683	IS-2053-007	Program Lang I with Scripting	Burres, Ian
36685	IS-2053-008	Program Lang I with Scripting	Burres, Ian
38272	IS-2053-009	Program Lang I with Scripting	Quebodeaux, Devin
36690	IS-2053-ON1	Program Lang I with Scripting	Newsom, John
36692	IS-2053-ON2	Program Lang I with Scripting	Newsom, John
36694	IS-2063-001	Program Lang II with Java	Shepherd, Linda
36695	IS-2063-002	Program Lang II with Java	Shepherd, Linda
36696	IS-2063-003	Program Lang II with Java	Shepherd, Linda
38273	IS-2063-004	Program Lang II with Java	Shepherd, Linda
38274	IS-2063-005	Program Lang II with Java	Castaneda, Robert
39641	IS-2063-006	Program Lang II with Java	Joshuva, Justin
36698	IS-2063-ON1	Program Lang II with Java	Castaneda, Robert
38277	IS-2063-ON2	Program Lang II with Java	Joshuva, Justin

Enter a CRN number: 36694

The details for CRN #36694 are:

IS-2063-001 Program Lang II with Java
 Credits: 3
 Time: Tuesday, Thursday, 10:00 AM - 11:15 AM
 Type: Online only, at set time
 Room: Internet Class Room
 Instructor: Shepherd, Linda
 Campus: Internet