

Program Learning Outcomes (PLO)

Upon successful completion of this course, students will meet the student learning outcomes that support the following program learning outcomes of the BS Data Science Program:

Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements.

Communicate effectively in a variety of professional contexts.

Apply theory, techniques, and tools throughout the data lifecycle and employ the resulting knowledge to satisfy stakeholders' needs.

🗏 Course Materials

Required Texts/Readings Textbooks:

• *Biological data exploration with Python, pandas and seaborn* by Martin Jones. June, 2020. (https://pythonforbiologists.com/biological-data-exploration-book) ISBN-13: 979-8612757238 Additional course readings, examples, exercises, etc. will be assigned and provided by the instructor.

Other Readings:

Hands-On Data Visualization: Interactive Storytelling From Spreadsheets to Code by Jack Dougherty and
Ilya II 100 2001 100 114 070 1492086000. Free open-access web edition at

Addition and proded by teinstrm

- 1. Quizzes will take place once a week at the end of class to assess students' knowledge of the course materials from the week prior. A unique password will be provided for each quiz during lecture.
- 2. The purpose of the hands-on lab is to develop students' understanding of the material and the skills in problem -solving. Students will work on the hands-on exercise with a group partner assigned by the instructor. Each student mut deg

Late Policy - Hands-Ons ONLY

Life happens - You can submit hands-ons late, no explanation why necessary. Please just add in the comment box of your submission "USING LATE PASS"

Late Passes: You can submit the assignment up to 3 days after the deadline.

Quiz Drop

A student's 2 lowest quiz scores will be dropped.

Incomplete work

Points will be deducted for incomplete question responses and solutions that are partially functional. Consult individual assignments for details of point allocation for each problem.

Academic Honesty

All assignments submitted, including quizzes, hands-on activities, exams, and projects, are expected to be the student's own original work. The instructor may, at any time, ask a student to explain the meaning of any part of an answer they have submitted. If the student cannot adequately explain their answer, the penalty for the en



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5	9/19	Reshaping Data
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14	11/19	Integrating Data Visualization in Web App
14	11/21	Deploying Data Visualization Web App to the Cloud
15	11/26	Deploying Data Visualization Web App to the Cloud
15	11/28	
16	12/3	
16	12/5	