

SYLLABUS
CBAD 493 – DATA WRANGLING
Fall 2022

Wall College of Business Vision Statement

The Wall College of Business will be recognized as a school of choice for value added undergraduate and masters level business programs based in public universities in the Carolinas and Mid-Atlantic region of the United States.

Professor: Dr. Mitchell Church
Office: Wall 323-F
Office Hours: MWF 10:00-11:50
Email: mchurch@coastal.edu

Course Description:

CBAD 493 Data Wrangling (3 credits), (Prereq: CBAD 292; CBAD 393 or ACCT 336 or HRTM 393), This course is designed to introduce students to the core principles of data wrangling, the process of converting raw data into something useful for organizational decision making. In this course, students are provided with an overview of various data wrangling techniques and tools, with an emphasis on data wrangling in practice. F,S

Required Text and Other Course Materials:

1. Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython 2nd Edition
2. The Data Wrangling Workshop: Create your own actionable insights using data from multiple raw sources
3. This course also requires students to have access to a laptop that they can bring to class with Python 3, Jupyter notebook, and the Pandas package installed. All of these are available via installing the latest Anaconda distribution for Python 3.X, available at <https://conda.io/docs/user-guide/install/index.html>. Using Anaconda to install Python, Jupyter and Pandas, rather than using another method, will minimize technical difficulties.

Course Objective(s) and Student Learning Outcomes

Upon successful completion of this course, you (the student) should be able to:

- Understand the types of data available to modern organizations
- Use tools used to load, clean, transform and reshape data
- Use the iPython shell and Jupiter notebook for exploratory data analysis
- Choose which organizational data to use and at what level of detail for a specific context
- Meaningfully combine multiple sources of data
- Decide how to distill the results to a size and shape that can drive downstream analysis

Additional Topics and Emphases of the course:

- Data Wrangling Dynamics
- Ingesting Data
- Describing Data
- Assessing Data Utility for Decision Making
- Profiling Data
- Structuring Data
- Using Transformation to Clean Data
- Handling Missing data
- Combining and Merging Datasets

Student Responsibilities:

1. Students are expected to review all course materials including provided lectures.
2. Students are responsible for all material covered in provided lectures and assigned as outside of class reading.
3. Students are responsible for completing all assignments and exams on the designated date. Late assignments will not be accepted and exams will not be rescheduled without PRIOR approval from the instructor.
4. Students are responsible for following the Coastal Carolina Academic Integrity Policy for all work and assignments.

The coastal email address (mchurch@coastal.edu) will be the only address used to communicate with the class. It is your responsibility to learn where and how to access your coastal account. I request that emails about the course include the course number in the subject line (CBAD 393). If you do not include the course number in the subject it may get filtered out by Outlook and your response will be delayed.

Attendance and Submission Policy

Late assignments will not be accepted and exams will not be rescheduled without PRIOR approval from the instructor. It is the student's responsibility to notify me if they have missed assignments or work due to emergencies. I am willing to make arrangements in the case of family travel, events or other unanticipated conflicts provided they are made **in advance**.

Academic Responsibility

Each student has an Academic Responsibility to comply with the Code of Student Conduct as written in the Coastal Carolina University Student Handbook. Violations of the Code of Student Conduct will not be tolerated. Any such violations will be addressed in strict accordance with Coastal Carolina University guidelines. Each student is responsible for reviewing the Code of Student Conduct and associated disciplinary policy as outlined in the CCU Student Handbook, (coastal.edu/deanofstudents/codeofconduct.pdf).

The following behavioral examples violate this code (so don't do these): Cheating, Plagiarism, Perjury, Classroom or Instructional Disruption, Misuse of University Equipment, Misuse of University Documentation, Fraud or Misrepresentation. Students who choose to violate the code will receive the letter grade of "F" for the course.

Grading Policy and Procedures

Enrollment in a course obligates the student not only for prompt completion of all work assigned but also for punctual and regular attendance and for participation in whatever class discussion may occur. It is the student's responsibility to stay informed concerning all assignments made. Absences, whether excused or unexcused, do not absolve the student from this responsibility.

Each of the following symbols will become a permanent part of the student's academic record when assigned. **A, B+ and B, C+ and C, D+ and D, and F** carry the traditional academic connotations of excellent, good, average, poor, and failing performance, respectively. Please note that while I do try to keep Moodle accurate, Moodle is NOT and never will be an official representation of your current standing in the course.

Final Grades:	A	90-100	C	70-74
	B+	85-89	D+	65-69
	B	80-84	D	60-64
	C+	75-79	F	0-5