



THE UNIVERSITY OF VERMONT
**PROFESSIONAL AND
CONTINUING EDUCATION**

One of the most flexible and widely-used programming languages, Python allows us to rapidly process large datasets, perform cutting-edge analysis, and generate compelling, interactive visualizations. This three-week, evening course, taught live online by experienced data professionals, will cover the basic principles of programming in Python, sorting & cleaning your data, analyzing data with key statistical methods, visualizing data, and even developing predictive data models. Through individualized coaching and group feedback, you'll be able to move your own data project through four stages: Hypothesis, Organization, Analysis, and Visualization & Communication. Whether you are a beginner in data analytics, or just new to Python, you will leave having learned an exciting and in-demand new skill that can help advance your career.

About the Course



DESIGNED TO FIT A WORK SCHEDULE

Classes meet Monday, Tuesday, and Wednesday evening each week from 6:30PM - 9:30PM. All classes will be held 100% online. Expect to spend an additional 5-10 hours each week on project work.



TAUGHT BY INDUSTRY INSTRUCTORS

Learn from instructors who are data scientists, analysts and managers. They'll not only teach you the fundamentals, but the updates, tips, & tricks they use daily.



LEARN BY DOING

Apply the new concepts and skills you learn in practical exercises, ongoing activities, and real-world projects.



ADVANCE YOUR CAREER

Take the next step on your unique professional journey by learning the essential professional & career skills to build the career you want as part of our Professional Acceleration experience.



SCHEDULE

March 7th - March 23rd, 2022

Online-live classes Monday, Tuesday and Wednesday; 6:30pm - 9:30pm



TUITION

The tuition for this course is \$2000

What You Will Learn

- Python syntax & data structures
- Data modeling
- Visualizing data with Matplotlib and plotly
- Data-driven presentations & storytelling
- Data cleaning & nulls
- Jupyter Notebooks
- Functions, variables, and strings
- Loops & logic statements
- Packages and libraries
- Test data vs train data
- RESTful APIs

What You Will Leave With

You will leave this course with the ability to import, clean, sort, analyze, visualize, draw insights from, and tell stories with large amounts of data using Python, a popular and versatile programming language. You will be able to read and write computer code in Python, use statistical methods to analyze data, and use basic machine learning techniques to make predictions about your data. Ultimately, you should leave with the ability to deliver concise and impactful presentations based on your own advanced data analyses.

This course also includes our Professional Acceleration experience to help you develop professionally and succeed in your new skill development, including developing a clear professional narrative and improving your resume.

Who is this Course For

This course is ideal for those new to analyzing data professionally, professionals with strong data analytics skills new to programming, or those simply new to Python. Beginners and experienced professionals alike will leave this course with a strong understanding of data analytic methods and using Python programming for analysis, visualizations, & making predictions with data.

What is Required

Basic computer literacy such as browsing the web, downloading and installing programs, switching between programs, and using videoconferencing software like Zoom. Basic experience working with data, or any experience with coding are both helpful but are not required.

This course is **three weeks long** and meets three nights each week: **Mondays, Tuesdays, and Wednesdays from 6:30pm-9:30pm**. Extra help is available from 6pm-6:30pm on classnights, as well as 3+ additional office hours each week. **Expect to spend an additional 6-10 hours each week** on projects and assignments outside of class.