



CONTINUING EDUCATION

Course Outline

Data Analyst Certificate Capstone

Integrate the knowledge you have gained from the Data Analyst Certificate Program. Demonstrate your understanding of data analysis using SQL and Power BI; build a Power BI dashboard based on a “real-world” scenario; develop a project proposal outlining an approach to the dashboard; implement the dashboard; and test the results using Power BI and Python. You will document your work through written reports and present your findings at course end.

Who Should Take This Course?

This is the eighth and final course in the Data Analyst Certificate. Enrollment is limited to those who have completed all the required courses in the Certificate.

Course Objectives

- Create a Power BI report based on a “real-world” scenario
- Define tables, matrices, and visuals that are needed for the Power BI report
- Construct visualizations in Power BI and connect the dashboard to a SQL database
- Publish the result as a Power BI dashboard in the Power BI service

Course Info

- Length: 9 hours
- Format: Lab
- Prerequisites: Python Scripting, Data Mining and Data Visualization

Course Content

Create a Power BI report based on a “real-world” scenario

- Create a local Power BI report on a selected scenario of your choosing
- Connect to one or more DB tables as appropriate to the chosen scenario
- Import the data into Power BI and create any necessary relationships

Define tables, matrices, and visuals that are needed for the Power BI report

- Identify the data types imported in the previous section
- Identify which method best communicates the information visually
- Decide the frequency for which the data must be updated for the report

Construct visualizations in Power BI and connect the dashboard to a SQL database

- Select visuals for the dataset(s) that have been imported into Power BI
- Create a custom visual in Python for the Power BI report
- Create tables or matrices as appropriate

Publish the result as a Power BI dashboard in the Power BI service

- Select which visuals to use in the dashboard from the report that was created
- Add additional insights that are suggested by the Power BI service if they are meaningful
- Publish the final dashboard

Assessment /Evaluation

This course is not assigned a letter or numerical grade. However, in some cases, skill assessments may be administered during the course to gauge progress and comprehension.

Course Completion / Continuing Education Unit (CEU) Letter

If your company requires proof of course completion, or if you would like to have proof for your own records, you may request a Course Completion/Continuing Education Unit (CEU) letter **after the final session of your course**. You must attend* 80 percent of the course (or 100 percent of a single-day course) to qualify for the letter. You can [request a Course Completion/CEU letter online](#).

Certificates of Completion for Certificate Programs

To receive a Certificate of Completion for the Data Analyst Certificate, you must take all eight required courses; attend 80 percent of each course (calculated by number of sessions in each course), except the Capstone courses, where 100 percent attendance is required; participate in class; and successfully complete the SQL Server Capstone project and the Data Analyst Certificate Capstone project by the deadlines given. (Please note: Saturday sessions lasting longer than four hours will count as two sessions.) If you complete a certificate program by taking courses individually (not through a series), you can [request a Certificate of Completion online](#).

*Attendance for CEU letters and certificate programs is verified via the sign-in sheets provided at each class session. It is your responsibility to sign-in.

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The accommodations authorized on your forms should be discussed with your instructor. All discussions will remain confidential. Accommodations are not provided retroactively, so it is essential to discuss your needs at the beginning of the quarter. Additionally, only accommodations approved by Disability Support Services will be provided. This syllabus is available in alternate formats upon request. Green River College is an equal opportunity educator and employer. Learn more at www.greenriver.edu/accessibility.