Bachelor of Applied Science - Data Analytics

Degree Type
Bachelor of Applied Science

Note: As of the publication of this catalog, the Bachelor of Applied Science-Data Analytics is not yet available to students. Course requirements to complete the degree are still under development, and pre-enrollment and general education requirements listed here are the recommended courses to prepare for the degree.

The Wenatchee Valley College BAS-DA Degree Program aims to prepare students to enter the workforce with a Bachelor of Applied Science Degree in Data Analytics. Graduates will be prepared to find jobs in a variety of industries particular to North Central Washington.

As an emerging field, Data Analytics refers to collecting, identifying and interpreting both qualitative and quantitative data. This data can be used to inform industry related to productivity or other business decisions as well as inform researchers seeking to support or argue against theories and hypotheses. The BAS-DA program at WVC aims to equip graduates with a broad depth of knowledge. This knowledge will be transformative for students, including topics such as applied statistics, management science, study design, modeling in discrete- or continuous- time, sampling methods, forecasting, machine learning, and current trends in business intelligence tools. All coursework has grown directly from conversations with local business partners.

WVC's Associate in Technical Science Degree program in Computer Technology is one feeder program into the BAS-DA degree. If students are interested in the BAS-DA degree, they are advised to enroll in the pre-calculus math sequence during their two-year program of study, as well as CSC 110. Students need to be ready for upper division course work in math and science when they begin the BAS- DA degree.

Students pursuing an Associate of Technical Science Degree (ATS) in Computer Technology (Network Administration) will be able to significantly broaden their skillset by following a specific pathway to the BAS-DA. Having the BAS-DA in addition to the ATS can provide graduates with well-rounded knowledge and expertise in both computer hardware and data analytics.

Pre-enrollment requirements:

Before any student can be admitted to the BAS-DA program, they must complete the following courses with a cumulative GPA of 2.5 or greater. These courses can also be used to satisfy general education.

- Programming: CSC 110: Intro to Data Analytics (R).
- Mathematics Requirement: MATH& 146, MATH& 151, MATH& 152 and MATH& 211.
- Science Requirement/Electives: 10 credits to be chosen with advising and in line with the student's expected specialization. One course must be chosen from the physical, natural, or earth sciences, and 5 credits must be from a laboratory course.
- Communications Requirement: ENGL& 101, and ENGL 235.
- Pre-Major General Education Requirement:
- 15 credits. 5-10 credits from the Social Science Distribution, and 5-10 credits from the Humanities Distribution.

Additional requirements:

- Students must earn a cumulative grade point average of at least 2.00, as calculated by the degree awarding institution.
- The general education courses will include courses earned at either/both the associate degree and/or applied bachelor's degree level, based on the total required 180 quarter hours of credit.
- A minimum of 60 quarter hours of general education courses will be required, to include the following distribution areas:

Total Credits	**90**

Course Sequencing

Program Outcomes:

The BAS-DA degree at WVC has as its program outcomes to produce graduates who, after completing the program should be able to:

- Obtain, process, analyze and interpret data ethically.
- Interpret data findings effectively to various audiences, orally, visually and in written formats.
- Utilize critical thinking skills in order to find solutions to various industry challenges.
- Apply computing theory, languages and algorithms, as well as mathematical and statistical models, and the principles of optimization to appropriately formulate and use data analyses.
- Formulate and use appropriate models of data analysis to explain trends.
- Acquire training and education to seek employment or advance in current employment in computer technology fields.