

Bachelor of Science in Data Visualization

Degree Map & Planning Information

Admissions Information

This program is a declarable major. If you meet the minimum requirements listed below, you may submit a major declaration form through the UWB website.

Minimum requirements for current UW Bothell students:

- English Composition Coursework (5 credits)
 - B WRIT 133 or B WRIT 134 or ENGL 131 or equivalent Composition Course
- Statistics Coursework (5 credits)
 - BIS 215 Understanding Statistics or B MATH 215 Health Statistics or B BUS 215 Business Statistics or STAT 220 Statistical Reasoning or equivalent introduction to statistics course
- Calculus Coursework (5 credits)
 - STMATH 124 Calculus 1 or MATH 124 Calculus 1
- Computer Programming Coursework (10 credits)
 - CSS 142 Computer Programming I or CSE 142 Computer Programming I or CSE 122 Intro to Computer Programming II
 - CSS 143 Computer Programming II or CSE 143 Computer Programming II or CSE 123 Intro to Computer Programming III

Curriculum Information

General Education

To be eligible for graduation from the University, with the baccalaureate degree, a student must complete a minimum of 180 academic credits and satisfy all other specific requirements. The University of Washington Bothell has established minimum general education requirements for baccalaureate degrees. These minimum requirements are:

English Composition – 5 credits (A minimum grade of 2.0 is required)

Additional Writing – 10 credits

Reasoning (RSN) – 5 credits

Natural Sciences (NSc) – 15 credits

Arts and Humanities (A&H) – 15 credits

Social Sciences (SSc) – 15 credits

Diversity – 5 credits (can overlap with General Education requirements above)

Major Requirements

For the Data Visualization major (BS), students must complete the following courses with the following grades (where indicated):

Data Visualization Core Courses

- B DATA 200 Introduction to Data Studies (5 credits)
- B DATA 232 Introduction to Data Visualization (5 credits)
- Either BIS 218 Power of Maps OR B GIS 342 Geographic Information Systems (5 credits)
- Either BES 301 Science Methods and Practice OR BST 301 Scientific Writing (5 credits)
- Either STMATH 125 or MATH 125 Calculus 2 (5 credits)
- Either STMATH 126 or MATH 126 Calculus 3 (5 credits)
- Either BIS 231 Linear Algebra or STMATH 208 Matrix Algebra (5 credits)

Advanced Data Visualization and Analysis Methods (15 Credits)

Spatial Data Analysis (15 credits)

Data Visualization Electives (25 credits)

Bachelor of Science- 90 credits total

Sample 4-year Course Plan

Year 1

Autumn	Winter	Spring	Summer
B WRIT 134 (5)	B WRIT 135 (5)	BIS 215 (5)	
B CORE (5-A&H or SSc)	A&H (5)	A&H (5)	
A&H or SSc (5)	NSc (5)	SSc (5)	

Year 2

Autumn	Winter	Spring	Summer
B DATA 200 (5)	B DATA 232 (5)	STMATH 126 (5)	
STMATH 124 (5)	STMATH 125 (5)	SSc (5)	
CSS 142 (5)	CSS 143 (5)	BIS 218 or B GIS 342	

Year 3

Autumn	Winter	Spring	Summer
BES 301 or BST 301 (5)	BIS 231 or STMATH 208 (5)	Advanced Data Visualization (5)	
Spatial Data Analysis (5)	Spatial Data Analysis (5)	Spatial Data Analysis (5)	
Data Visualization Elective (5)	Data Visualization Elective (5)	Data Visualization Elective (5)	

Year 4

Autumn	Winter	Spring	Summer
Advanced Data Visualization (5)	IPR (see list)	General Elective or Minor Requirement (5)	
Data Visualization Elective (5)	General Elective or Minor Requirement (5)	General Elective or Minor Requirement (5)	
Data Visualization Elective (5)	General Elective or Minor Requirement (5)	General Elective or Minor Requirement (5)	

This is a sample schedule of courses based on degree requirements. The actual degree plan may differ depending on the course of study selected, the number of starting credits, or the starting admission point. This guide is not a substitute for academic advising. For more information, contact your academic advisor or visit www.uwb.edu/advising.