

# Bachelor of Arts in Physics

## 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:

- Completion of STMATH 124 and STMATH 125 with a 2.0 or higher
- Completion of B PHYS 121, B PHYS 122, and B PHYS 123 with a 2.0 or higher

### 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 Physics (BA) major, students must complete the following courses with the following grades (where indicated):

STEM Core Courses – 67 credits

Mathematics (20 credits)

- Calculus I – STMATH 124 (5 credits)
- Calculus II – STMATH 125 (5 credits)
- Calculus III – STMATH 126 (5 credits)
- Differential Equations – STMATH 207 (5 credits)

Physics (41 credits)

- Mechanics – B PHYS 121 (5 credits)

- Electromagnetism & Oscillatory Motion – B PHYS 122 (5 credits)
- Waves – B PHYS 123 (5 credits)
- Classical Mechanics – B PHYS 221 (5 credits)
- Modern Physics – B PHYS 222 (5 credits)
- Thermal Physics – B PHYS 224 (5 credits)
- Senior Project – B PHYS 433 (5 credits)
- Physics, Society & Industry – B PHYS 484 (5 credits)
- Physics Seminar – B PHYS 494 (1 credit)

Chemistry (6 credits)

- General Chemistry I – B CHEM 143 (4 credits)
- General Chemistry I Lab – B CHEM 144 (2 credits)

Approved Physics Electives – 10 credits

## Sample 4-year Course Plan

### Year 1

Autumn	Winter	Spring	Summer
B PHYS 121 (5)	B PHYS 122 (5)	B PHYS 123 (5)	
B CORE (5-A&H or SSc)	STMATH 125 (5)	STMATH 126 (5)	
STMATH 124 (5)	B WRIT 134 (5)	B WRIT 135 (5)	

### Year 2

Autumn	Winter	Spring	Summer
B PHYS 222 (5)	B PHYS 224 (5)	B PHYS 221 (5)	
STMATH 207 (5)	A&H or SSc (5)	A&H or SSc (5)	
A&H or SSc (5)	DIV (5)	Elective (5)	

### Year 3

Autumn	Winter	Spring	Summer
B PHYS 494 (1)	B PHYS Elective (5)	B PHYS Elective (5)	
B CHEM 143/144 (6)	Elective (5)	Elective (5)	
A&H or SSc (5)	Elective (5)	Elective (5)	
Elective (3+)			

### Year 4

Autumn	Winter	Spring	Summer
B PHYS 484 (5)	A&H or SSc (5)	B PHYS 433 (5)	
Elective (5)	Elective (5)	Elective (5)	
Elective (5)	Elective (5)	Elective (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](http://www.uwb.edu/advising).