



# Physics

Associate of  
Science

Transfer to UW, SU, CWU -  
w/Math Placement 141

## Program description

Physics encompasses the study of the universe from the largest galaxies to the smallest subatomic particles. The goal of physics is to understand how and why things work from first principles. Applications range from quantum computers to new radiotherapies for curing cancer to sustainable energy sources. Physics is great preparation for almost any career because it teaches us how to analyze complex problems and equips us with strong quantitative reasoning skills that can be applied to any scientific or technical field. This is typically achieved through active learning in lecture- or discussion-based teaching combined with hands on laboratory experience. The broad range of outcomes satisfies requirements for various majors in STEM, as well as developing or improving scientific literacy applicable to many industrial settings. [Learn More](#)

## Key advisors

Aleya Dhanji, [adhanji@highline.edu](mailto:adhanji@highline.edu)  
Igor Gluzman, [iglozman@highline.edu](mailto:iglozman@highline.edu)  
Sean Rogers, [srogers@highline.edu](mailto:srogers@highline.edu)

Request a [faculty advisor](#).

## Program map

The following program map contains recommended courses to complete your [AS in Physics degree](#). This document **does not** replace meeting with an advisor. Meet with an advisor to discuss your educational goals and plans. It is important to ensure you are taking pre-requisite courses for your transfer institution of choice.

### First block

Courses: 15 credits	Credits	Complete?
ENGL& 101 – English Composition 1	5	
Distribution Course	5	
MATH& 141 – Precalculus I	5	

#### Action items/milestones

- Meet with Pathway Advisor to confirm your Program of Study and Academic Plan

### Second block

Courses: 15 credits	Credits	Complete?
CHEM& 161 – General Chemistry I w/Lab	5	
MATH& 142 – Precalculus II	5	
<i>Distribution Course</i> or PHYS 139 (if no one-year of high school physics passed) or C SCI 131 (if no previous programming experience)	5	

#### Action items/milestones

- Meet with Faculty Advisor prior to completion of 30 credits

### Third block

Courses: 15 credits	Credits	Complete?
CHEM& 162 – General Chemistry w/Lab II	5	
MATH& 151 – Calculus I	5	
<i>Distribution Course</i> or PHYS 139 (if no one-year of high school physics passed) or C SCI 131 (if no previous programming experience)	5	

### Fourth block

Courses: 15 credits	Credits	Complete?
PHYS 201 - Mechanics	5	
MATH& 152 – Calculus II	5	
<i>Distribution Course</i> or C SCI 142	5	

### Fifth block

Courses: 15 credits	Credits	Complete?
PHYS 202 - Electricity and Magnetism	5	
MATH& 163 – Calculus 3	5	
MATH 230 – Differential Equations	5	

#### Action items/milestones

- Meet with Faculty Advisor at or prior to completion of 75 credits

### Sixth block

Courses: 15-20 credits	Credits	Complete?
PHYS 203 - Waves, Thermodynamics and Modern Topics	5	
MATH 220 – Linear Algebra	5	
MATH& 264 – Calculus IV	5	
<i>Distribution Course</i> or C SCI 142 <i>Distribution Course (if any remain)</i>	5	

#### Action items/milestones

- Apply for graduation and register for commencement

[Distribution Areas Course List](#)