

## Pathway: Physics and Astronomy

### Area of Study: Science, Technology, Engineering, and Math



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#### Overview

If you are curious about the mysteries of the universe, and you enjoy math and science, this pathway could be a good choice for you! This pathway is designed to meet Associate in Science Track 2 degree requirements with a concentration in Physics and Astronomy. This pre-major pathway is designed to prepare you to transfer at the junior-level into a bachelor's program at a four-year college or university. In this pathway, you'll explore Newton's Laws of Motion, conservation of energy and momentum, and other principles that help explain the physical world. (Read program QR code to see more)

#### Estimated Length of Completion

Degree: Associate of Science - Transfer, Track 2 (PHST2AS)  
6 quarters, Full time

#### Career Opportunities

- Physicist
- Astronomer
- Nuclear Physicist
- Accelerator Operator
- Applications Engineer
- Data Analyst
- Design Engineer
- Physics Instructor
- Lab Technician
- Laser Engineer
- Optical Engineer
- Software Developer
- Solar Physicist
- Process Engineer
- Seismologist
- Materials Scientist
- Pa ...(Read program QR code to see more)

#### Tuition and Fees

Learn more about the [estimated cost of attendance and general fees to attend college](#).

#### Financial Aid and Funding Resources

It's time to apply for Financial Aid for next year by completing either the [FAFSA](#) or the [WASFA](#) 2024-25.

#### Need help paying for college?

To apply for financial aid, including grants and scholarships you don't have to pay back, visit [South's Financial Aid Department](#) for details. Part-time and full-time students can qualify for financial aid funds.

#### Program Contact

**New or Prospective Students:** Please connect with the [Welcome Center](#) to discuss South's program options and for help navigating the [Steps to Enroll](#).

Email: [southwelcomecenter@seattlecolleges.edu](mailto:southwelcomecenter@seattlecolleges.edu)

Phone: 206-934-7943

**Current Students:** Please connect with [Advising](#) to create an educational plan and discuss specific class offerings for your program.

Email: [advisorsouth@seattlecolleges.edu](mailto:advisorsouth@seattlecolleges.edu)

Phone: 206-934-5387

#### Advising Contact

If you are already registered for classes or a returning student, please see your primary advisor to create an educational plan. If you need assistance getting connected to the appropriate advisor, visit the [Advising Center website](#).

Email: [advisorsouth@seattlecolleges.edu](mailto:advisorsouth@seattlecolleges.edu)

Phone: 206-934-5387



Scan QR code to learn more about this program.

05/13/2024



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#### Get Started

**Step 1:** Apply and register at South Seattle College anytime (the application is always free). Once you become a student, register for classes using the online class schedule and go to the academic calendar for registration dates and tuition deadlines.

**Step 2:** See an advisor to create a personalized educational plan by the end of your second quarter. Your plan will include prerequisites, graduation requirements, and transfer preparation if you plan to transfer to another college or university to earn a bachelor's degree.

A sample schedule is below. The schedule will help you explore courses. The guide assumes a fall quarter start, but you can begin in any quarter.

#### Sample Schedule

This is an example of a quarterly schedule:

##### Quarter 1

- MATH&141 Precalculus I (5 units)
- CHEM&139 General Chemistry Prep (5 units)
- POLS&202 or PSYC&100 or ENVS150 (5 units)
- STEM 111 (Recommended) (3 units)

##### Quarter 2

- MATH&142 Precalculus II (5 units)
- CHEM&161 General Chem W/Lab I (6 units)
- CSC110 or ASTR&100 or BIOL&160 (5 units)
- STEM 118 (Recommended) (2 units)

##### Quarter 3

- ENGL&101 English Composition I (5 units)
- MATH&151 Calculus I (5 units)
- CSC110 or CSC142 or CHEM&162 (variable units)

##### Quarter 4

- MATH&152 Calculus II (5 units)
- PHYS&221 Engineering Physics I (5 units)
- SOC&101 or ANTH&100 or any ENGL Literature Course (5 units)

##### Quarter 5

- MATH&163 Calculus 3 (5 units)
- PHYS&222 Engineering Physics II (5 units)
- CMST&220 or ART101 (5 units)

##### Quarter 6

- PHYS&223 Engineering Physics III (5 units)
- MATH238 Differential Equations (5 units)
- Pick one from the following list (5 units)  
MATH 224 | MATH 220 | ENGR& 204 | ENGR& 214 |  
CSC 143



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