

## Pathway: Physics (Accelerated)

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



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#### Overview

This pathway meets requirements for the Associate of Science - Transfer, Track 2 degree requirements with a concentration in Physics (Accelerated). An “accelerated” pathway assumes students already have some background knowledge in physics, chemistry, computer science, and at the calculus level for mathematics either from high school or other college coursework. (Read program QR code to see more)

#### Estimated Length of Completion

Degree: Associate of Science - Transfer, Track 2 (PHST2AS)

9 quarters, Part time

#### Career Opportunities

A Physics pathway can lead to various career opportunities. Examples include:

- Physical sciences technician
- Physics Teacher
- Engineer
- Programmer
- Research scientist
- Web developer
- IT consultant/data analyst
- Financial analyst

A Bachelor's degree or higher may be required for some careers listed above. For more information, (Read program QR code to see more)



#### Future Education

Once you complete the AS-Track 2 degree, additional education opportunities include:

- Bachelor's degree in Physics. In addition, prepares you well for graduate coursework in Engineering, Earth and Space Science, Mathematics or a related field at a four-year college or university.
- [Bachelor of Applied Science \(BAS\)](#) degree at one of the Seattle Colleges such as Application Development at North Seattle College.

North Seattle College has direct transfer agreements with four-year institutions throughout Washington state, including the University of Washington, Washington State University, and Seattle University. Physics graduates from North have also transferred to out-of-state institutions. Program and admissions requirements vary from college-to-college. For example, the University of Washington requires two quarters of world language for admission, three quarters to graduate. Contact an advisor to create an educational plan tailored to transfer to the institution of your choice. You can use the College Navigator search engine found at <http://nces.ed.gov/collegenavigator> to find Physics programs in Washington state or around the country.



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#### Get Started

**Step 1:** Apply and register at North 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.

#### 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 [North's Financial Aid Department](#) for details. Part-time and full-time students can qualify for financial aid funds.

#### Program Contact

##### Physics Department Contact

[Mike Steffancin](#)  
[email](#)  
(206) 934-3680

##### Math & Science Division

##### Location IB 2429

##### Division Contacts

(206) 934-3746  
(206) 934-3748 (fax)

##### Mailing Address

NSC Math & Science Division  
9600 College Way N  
3N2429  
Seattle, WA 98103

##### Dean

[Vashti Bryant](#)

#### Advising Contact

Contact the [Science, Technology, Engineering, and Mathematics Area of Study advisor](#).

Phone: (206) 934-3658



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#### Before Quarter One

- [Pre-College or Transitional Studies English](#) (if needed).
- [Pre-College or Transitional Studies Math](#) (if needed).
- Take CHEM&139 General Chemistry Prep as a prerequisite to CHEM&161 General Chemistry with Lab I or [take the chemistry placement exam](#).
- PHYS& 114 or high school physics if needed.
- CSC 110 (or programming class).
- Apply for [Financial Aid](#) and other funding before your first quarter. Visit the [Financial Aid Office](#) to explore how to pay for college.
- [Transfer previous college credits](#) to North if applicable.
- Attend [New Student Orientation](#).
- [Explore placement options](#): take the [math](#) and [English](#) placement tool if needed.
- Make an informed choice on the [number of units to take each quarter](#).
- F-1 international students must enroll full time (12+ units) each quarter and check in with the [International Programs office](#) before the start of the quarter if enrolling in less than 12 units and/or before starting any work or volunteer experience.
- If you need academic accommodations for a documented disability, please contact [Disability Services](#).

A sample schedule and quarterly to-do list are below. The schedule and to-do list will help you explore courses and complete tasks on time. 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

- ENGL&101 English Composition I (5 units)
- MATH&151 Calculus I (5 units)

##### Quarter 2

- CHEM&161 General Chem W/Lab I (6 units)
- MATH&152 Calculus II (5 units)

##### Quarter 3

- CHEM&162 General Chem W/Lab II (6 units)
- MATH&163 Calculus 3 (5 units)

##### Quarter 4

- CHEM&163 General Chem W/Lab III (6 units)
- Visual, Literary and Perf Arts (5 units)

##### Quarter 5

- CSC142 or Approved Elective (5 units)
- PHYS&221 Engineering Physics I (5 units)

##### Quarter 6

- PHYS&222 Engineering Physics II (5 units)
- ENGR240 Intro Numerical Methods (5 units)

##### Quarter 7

- PHYS&223 Engineering Physics III (5 units)
- MATH220 or MATH224 or MATH238 (5 units)

##### Quarter 8

- Visual, Literary and Perf Arts or Individuals/Cultures/Societies (5 units)
- MATH220 or MATH224 or MATH238 (5 units)

##### Quarter 9

- Individuals/Cultures/Societies (5 units)
- MATH220 or MATH224 or MATH238 (5 units)



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#### Sample Quarterly To-Do List

This is an example of a quarterly to-do list:

##### Quarter 1

- Schedule an appointment with your assigned advisor in [Starfish](#) to meet and discuss your goals. Learn more about Starfish [here](#).
- Explore careers and majors through workshops, [counseling](#) and [career services](#).
- Visit the [Student Learning Center](#) to learn about tutoring services offered in-person and online.
- Check out [campus life](#): [Student Clubs \(Physics, Rocket Club, Engineering Club\) and Affinity Groups](#), Women in Science and Engineering (WISE), [TRIO](#), [Equity & Welcome Center](#), [Wellness Center](#), etc.
- Apply to [LSAMP](#).
- Visit [North's Transfer webpage](#) for transfer information.

##### Quarter 2

- Schedule an appointment with your assigned advisor in [Starfish](#) to meet and discuss your goals.
- Apply for [financial aid](#) for the upcoming academic year in Winter or Spring quarter to maximize your funding options.
- Research and develop a list of four-year colleges and universities.
- Attend [transfer events](#) at North and universities of interest.

##### Quarter 3

- Apply for the [Seattle Colleges Foundation Scholarship](#) and [other scholarships](#).
- Consider [Student Leadership positions](#) and other [on-campus jobs](#).

##### Quarter 4

- Update your educational plan and confirm your program of study with your [assigned advisor](#).
- Attend "Making Learning and Teaching Visible" campus event every spring.
- Apply for Summer financial aid.

##### Quarter 5

- Attend [transfer events](#) at North and universities of interest.
- Research and develop a list of four-year colleges and universities.
- Check transfer requirements for recommended electives if time such as: Statistics (MATH&211), Undergraduate Research, Technical Writing, Biology, Computer Science, Organic Chemistry, Engineering, Foreign Language, Astronomy, Geology 101.

##### Quarter 6

- Attend STEM Career Fair.

##### Quarter 7

- Write your personal statement for university applications.
- Apply for [financial aid](#) for the upcoming academic year in Winter or Spring quarter to maximize your funding options.
- Visit potential universities and determine application deadlines.
- Contact Physics Studies department at potential universities.
- Update your educational plan with your assigned advisor.



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**Quarter 8**

- Apply to universities or colleges and scholarships.
- Explore possible physics studies internships.
- Apply for Summer financial aid.
- [Apply](#) for the [Associate of Science - Transfer, Track 2 \(AS-Track 2\)](#) degree in ctcLink. Check with your assigned advisor to be sure you are meeting degree requirements.

**Quarter 9**

- Check in with university for transfer plan.



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