

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)

6 quarters, Full 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 ... (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.



Scan QR code to learn more about this program.

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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 Math](#) (if needed).
- [Pre-College or Transitional Studies English](#) (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

- CHEM&161 General Chem W/Lab I (6 units)
- ENGL&101 English Composition I (5 units)
- MATH&151 Calculus I (5 units)

Quarter 2

- CHEM&162 General Chem W/Lab II (6 units)
- MATH&152 Calculus II (5 units)
- Visual, Literary and Perf Arts (5 units)

Quarter 3

- PHYS&221 Engineering Physics I (5 units)
- CHEM&163 General Chem W/Lab III (6 units)
- MATH&163 Calculus 3 (5 units)

Quarter 4

- MATH220 or MATH224 or MATH238 (5 units)
- PHYS&222 (5 units)
- CSC110 or Approved elective (5 units)
- UGR294 Independent Research (5 units)

Quarter 5

- PHYS&223 Engineering Physics III (5 units)
- ENGR240 Intro Numerical Methods (5 units)
- MATH224 or MATH220 or MATH238 (5 units)
- UGR294 Independent Research (5 units)

Quarter 6

- MATH238 or MATH224 or MATH220 (5 units)
- Individuals/Cultures/Societies or Visual, Literary and Perf Arts (5 units)
- UGR294 Independent Research (5 units)
- Individuals/Cultures/Societies (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](#).
- Come to the [Library](#) to get help with research; check out resources; access computers and study space; and create media projects.
- 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.
- Join Society of Physics Students and/or American Association of Physics Teachers.
- Introduce yourself to a physics faculty member to plan early.
- Apply to [LSAMP](#).

Quarter 2

- Create an [educational plan](#) with your [assigned advisor](#).
- 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.
- Visit [North's Transfer webpage](#) for transfer information.
- Attend Engineering Mentor Night
- Apply for Washington State Opportunity Scholarship and WISE scholarship
- Consider applying for an NSF summer REU (National Science Foundation) undergraduate research experience.

Quarter 3

- Apply for the [Seattle Colleges Foundation Scholarship](#) and [other scholarships](#).
- Consider [Student Leadership positions](#), lab assistant, tutoring center and other [on-campus jobs](#).
- Visit potential universities, view geology research areas, and determine application deadlines.
- Consider taking summer classes (such as a Visual, Literary and Performing Arts or Individuals Cultures and Societies class) or an internship.



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Quarter 4

- Update your educational plan and confirm your program of study with your [assigned advisor](#).
- Contact Physics/Astronomy department at potential universities.
- Attend [transfer events](#) at North and universities of interest.
- Attend STEM Career Fair.
- Write your personal statement for university applications.
- 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 5

- Apply for the [Seattle Colleges Foundation Scholarship](#) and [other scholarships](#).
- Apply for [financial aid](#) for the upcoming academic year in Winter or Spring quarter to maximize your funding options.
- Check with transfer university requirements for ENGR&240.
- Apply to universities or colleges.
- Attend Engineering Mentor night.
- [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.
- Consider applying for a summer NSF REU (National Science Foundation) undergraduate research experience or [Society of Physics student website](#).

Quarter 6

- Attend on-campus graduation fair and commencement ceremony.
- Order cap and gown for commencement and join alumni association.



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