

## Pathway: Industrial Engineering and Material Science

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



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#### Overview

This pathway meets requirements for the Associate of Science Track 2 (AS Track 2) degree with a concentration in Industrial and Material Science Engineering. Completion of this degree prepares you to transfer into Industrial and Material Science Engineering major at a four-year college or university, which opens doors to a variety of careers in sectors including research and design, business, government, production operations, and industries. (Read program QR code to see more)

#### Estimated Length of Completion

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

#### Career Opportunities

An industrial and Material Science Engineering pathway can lead to various career opportunities. Examples include:

Industrial Engineering:

- Operation Research
- Systems Engineering
- Manufacturing
- Production
- Supply Chain
- Management Science
- Financial Engineering
- Ergonomics
- Human Factors Engineering
- Safety E ...(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 [North's Financial Aid Department](#) for details. Part-time and full-time students can qualify for financial aid funds.

#### Program Contact

Program Coordinator  
[Jae Hyeuk Suk](#)  
[email](#)  
(206) 934-4586

#### Advising Contact

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

206-934-3658



Scan QR code to learn more about this program.

05/04/2024



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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.

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

- ENGL&101 English Composition I (5 units)
- MATH&151 Calculus I (5 units)
- Individuals/Cultures/Societies (5 units)

##### Quarter 2

- CHEM&161 General Chem W/Lab I (6 units)
- MATH&152 Calculus II (5 units)
- PHYS&221 Engineering Physics I (5 units)

##### Quarter 3

- CHEM&162 General Chem W/Lab II (6 units)
- MATH&163 Calculus 3 (5 units)
- PHYS&222 Engineering Physics II (5 units)

##### Quarter 4

- MATH238 Differential Equations (5 units)
- Visual, Literary and Perf Arts (5 units)

##### Quarter 5

- CSC110 Intro to Cmptr Progming (5 units)
- ENGR&214 Statics (5 units)
- PHYS&223 Engineering Physics III (5 units)

##### Quarter 6

- ENGR&215 Dynamics (5 units)
- CSC 142 Computer Programming I or ENGR 240 Intro Numerical Methods (5 units)
- MATH220 Linear Algebra (5 units)

##### Quarter 7

- ENGR&225 Mechanics of Materials (5 units)
- ENGR&224 Thermodynamics (5 units)
- Individuals/Cultures/Societies or Visual, Literary and Perf Arts (5 units)



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