

## Pathway: Industrial Engineering / Material Science

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



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#### Overview

This pathway is designed for students who wish to complete an Associate of Science - Track 2 degree with a concentration in Industrial Engineering / Material Science. Students in this program will study the application of mathematics, science, and practical experience to invent, innovate, design, build, maintain, research, and improve products that impact people's lives. This program provides options to study engineering applications across many fields, with courses in the natural sciences, computer science, math, engineering and more. (Read program QR code to see more)

#### Estimated Length of Completion

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

#### Career Opportunities

A Industrial Engineering / Material Science 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 Engi ... (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

For more information, contact  
Science, Technology, Engineering, Math, and Business  
Division  
206.934.3858  
[STEMB.Central@seattlecolleges.edu](mailto:STEMB.Central@seattlecolleges.edu)

#### Advising Contact

Advising hours and services: [seattlecentral.edu/campus-life/student-support-and-services/transfer-and-career-advising/meet-advisor](https://seattlecentral.edu/campus-life/student-support-and-services/transfer-and-career-advising/meet-advisor)

Schedule in-person, Zoom, or phone appointments: [Starfish](#)

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

Phone: 206.934.4068

Location: Broadway Campus BE1102D



Scan QR code to learn more about this program.

05/09/2024



SEATTLE CENTRAL  
COLLEGE

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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

- ENGL&101 English Composition I (5 units)
- MATH&151 Calculus I (5 units)
- ENGR110 Engineering Orientation (2 units)
- Visual, Literary and Perf Arts (5 units)

##### Quarter 2

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

##### Quarter 3

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

##### Quarter 4

- CSC110 Intro to Computer Programming (5 units)
- ENGL&102 Composition II (5 units)

##### Quarter 5

- PHYS&223 Engineering Physics III W/ Lab (5 units)
- MATH238 or MATH220 (5 units)
- ENGR&214 Statics (5 units)

##### Quarter 6

- MATH238 or MATH220 (5 units)
- Individuals/Cultures/Societies (5 units)
- ENGR&215 Dynamics (5 units)

##### Quarter 7

- ENGR240 or CSC142 (5 units)
- ENGR&225 Mechanics of Materials (5 units)

##### Quarter 8

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



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