

## 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. (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)



#### Future Education

Once you complete this associates degree, additional education opportunities include, but are not limited to:

- A Bachelor's degree in Engineering, or a related field at a four-year college or university.

Seattle Central College has direct transfer agreements with four-year institutions throughout Washington state, including the University of Washington, Washington State University, and Seattle University. Graduates from Seattle Central have also transferred to out-of-state institutions.

Program and admissions requirements vary from college-to-college. Contact a Central advisor to create an educational plan tailored to transfer to the institution of your choice.



Scan QR code to learn more about this program.

05/08/2024

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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.

#### 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



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#### Before Quarter One

- Attend New Student Orientation
- Explore careers and majors: workshops, counseling and [Career Exploration Center](#)
- Visit the [Financial Aid Office](#) to explore how to pay for college
- Transfer previous college credits to Central *if applicable*
- Take the [Math](#) and [English placement](#) if needed

#### 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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#### 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 discuss your academic goals and to create a short-term educational plan
- Visit the [Learning Support and Tutoring Center](#) for tutoring
- Drop by the [Library](#) to get help with research; check out resources; access computers and study space; and create media projects
- Apply to the Ready Set Transfer (RST) Academy

##### Quarter 2

- Research and develop a list of four-year colleges and universities
- Attend transfer workshops and a transfer fair
- Apply for the [Seattle Colleges Foundation Scholarship](#) and other scholarships

##### Quarter 3

- Consider [Student Leadership](#) positions and other on-campus jobs
- Visit potential universities and determine application deadlines
- Meet with [Transfer Center](#) advisor to determine transfer eligibility
- Attend the University of Washington Undergraduate Research Symposium

##### Quarter 4

- Create long-term educational plan with your assigned advisor
- Research and contact Industrial Engineering / Material Science departments at potential universities
- Attend transfer workshops and a transfer fair
- Attend transfer day at prospective university
- Write your personal statement for university applications

##### Quarter 5

- Apply to universities or colleges and scholarships
- Plan to participate in the transfer student events at prospective universities
- Check in with the Engineering faculty during their posted office hours regarding possible careers and academic opportunities

##### Quarter 6

- Check in with university for admissions status
- Apply for FAFSA or WASFA at transfer university

##### Quarter 7

- [Apply for graduation for the AS-Track 2 degree](#)
- Look for summer internships such as Research Experience for Undergraduates (REUs)

##### Quarter 8

- Order cap and gown for commencement and join [Seattle Central Alumni Association](#)
- Attend graduation fair and [commencement ceremony](#)



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