

Pathway: Mechanical, Industrial and Aeronautical Engineering

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



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Overview

Are you a problem solver with a strong curiosity about math and science? Do you systems design and data modeling? Do you often wonder how things work? If so, engineering may be the career path for you! This pathway is designed to meet Associate of Science Track 2 – Civil and Mechanical Engineering MRP requirements. (Read program QR code to see more)

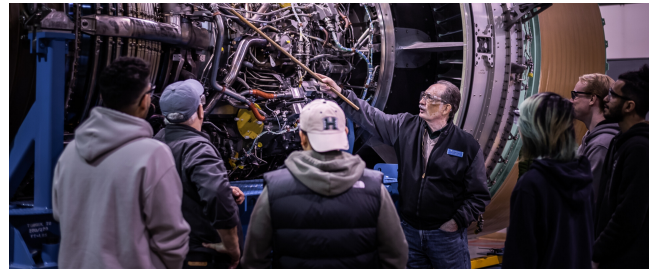
Estimated Length of Completion

Degree: Associate of Science – Transfer, Track 2: Civil & Mechanical Engineering MRP (MEEMCAS)
9 quarters, Full time

Career Opportunities

- Mechanical Engineer
- Industrial Engineer
- Aerospace Engineer
- CAD Technician
- Design Engineer
- Maintenance Engineer
- Manufacturing Systems Engineer
- Materials Engineer
- Patent Attorney
- Production Manager
- Automotive Engineer

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



Future Education

Once you complete this Associate degree, additional education opportunities include:

- A bachelor's degree in mechanical, industrial and/or aeronautical engineering or a related field at a four-year college or university.
- A [Bachelor of Applied Science \(BAS\)](#) degree at one of the Seattle Colleges.

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

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



Scan QR code to learn more about this program.

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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

New or Prospective Students: Please connect with the [Welcome Center](#) to discuss South's program options and for help navigating the [Steps to Enroll](#).

Email: southwelcomecenter@seattlecolleges.edu

Phone: 206-934-7943

Current Students: Please connect with [Advising](#) to create an educational plan and discuss specific class offerings for your program.

Email: advisorsouth@seattlecolleges.edu

Phone: 206-934-5387

Advising Contact

If you are already registered for classes or a returning student, please see your primary advisor to create an educational plan. If you need assistance getting connected to the appropriate advisor, visit the [Advising Center website](#).

Email: advisorsouth@seattlecolleges.edu

Phone: 206-934-5387



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Before Quarter One

- Please visit the [Steps to Enroll](#) page for everything you need to do.
- [Review the Academic Calendar for key enrollment dates.](#)
- If you need help with the Steps to Enroll, please contact the [Welcome Center](#).

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

- MATH102 College Algebra (5 units)
- MATH&141 Precalculus I (5 units)
- ENGR110 Engineering Orientation (2 units)

Quarter 2

- MATH&142 Precalculus II (5 units)
- ENGL99 Support For Engl& 101 (5 units)
- ENGL&101 English Composition I (5 units)

Quarter 3

- MATH&151 Calculus I (5 units)
- CHEM&139 General Chemistry Prep (5 units)
- ART111 or HUM105 (5 units)

Quarter 4

- MATH&152 Calculus II (5 units)
- CHEM&161 General Chem W/Lab I (6 units)
- ECON&201 or ENVS170 or CMST&230 (5 units)

Quarter 5

- MATH&163 Calculus 3 (5 units)
- CHEM&162 General Chem W/Lab II (6 units)
- ART111 or HUM105 (5 units)

Quarter 6

- MATH220 Linear Algebra (5 units)
- PHYS&221 Engineering Physics I (5 units)
- CHEM&163 or ENGL&235 (variable units)

Quarter 7

- MATH238 Differential Equations (5 units)
- PHYS&222 Engineering Physics II (5 units)
- ENGR&214 Statics (5 units)

Quarter 8

- CSC110 Intro To Cmptr Progming (5 units)
- PHYS&223 Engineering Physics III (5 units)
- ENGR&215 Dynamics (5 units)

Quarter 9

- CSC142 Computer Programming I (5 units)
- ENGR&225 Mechanics Of Materials (5 units)
- Pick one from the following list (5 units)
ENGR& 204 | MATH 224 | ENGL& 235 | BIOL& 211



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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 advisor in [Starfish](#) to meet and discuss your goals.
- Explore careers and majors through workshops, [counseling](#), and [WorkSource career services](#).
- Visit the [Library](#) to get help with research; check out resources; access computers and study space; and create media projects.
- Visit the [Tutoring Center](#) to learn about tutoring services offered in-person and online.
- Get involved on campus! Check out some of the resources, clubs and activities available to you through [Student Life](#) and [TRiO](#), [RST](#), and more!

Quarter 2

- Create an [educational plan](#) with your advisor.
- Research and develop a list of four-year colleges and universities
- Attend transfer workshops and/or a transfer fair. Find more information on our [Transfer Resources](#) page.
- Apply for [financial aid](#) for the upcoming school year in Fall or early Winter Quarter to maximize your funding options.
- Apply for Ready, Set, Transfer
- Visit South's [transfer webpage](#) for transfer information.

Quarter 3

- Update your [educational plan](#) with your assigned advisor.
- Attend a resume building or career workshop.
- Connect with potential universities (virtually or in person) and determine application deadlines.
- Research and apply for [scholarships](#).

Quarter 4

- Update your [educational plan](#) with your advisor.
- Attend transfer workshops, including a personal statement workshop.
- Write your [personal statement](#).
- Build relationships with faculty and staff at South to learn more about your pathway and future opportunities.
- Apply to universities or colleges and scholarships Meet with a Engineering Faculty member like Albert Engel (albert.engel@seattlecolleges.edu).

Quarter 5

- Apply for [financial aid](#) for the upcoming school year in Fall or early Winter Quarter to maximize your funding options.
- Finalize your three top choices for transfer institutions and programs.
- Apply to universities or colleges and scholarships.
- Explore internships in your major/career.
- Apply for [graduation](#) for your degree.

Quarter 6

Update your educational plan with your advisor.

Quarter 7

Update your educational plan with your advisor.

Quarter 8

- Apply for summer research or internship opportunities.
- Reapply for FAFSA or WAFA if transferring.



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