

## 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. This pre-major pathway is designed to prepare you to transfer at the junior-level into a related engineering program at a four-year college or university. Mechanical engineering is the study of maintaining, analyzing, designing and manufacturing machinery. (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)

#### 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](mailto: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](mailto: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](mailto:advisorsouth@seattlecolleges.edu)

Phone: 206-934-5387



Scan QR code to learn more about this program.

05/10/2024



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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.

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

- 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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