

# Major Planning Guide: Engineering

## What can I do with a degree in engineering?

Engineers can work in a wide variety of fields, from high tech firms to mining or oil companies. Engineers design software, build bridges, and find new ways of harnessing electricity. Engineering is a very broad field; many areas of engineering have strong employment prospects and high salaries.

## Related Majors

Aerospace & Astronautics	Environmental Engineering
Bioengineering	Industrial Engineering
Chemical Engineering	Materials Science & Engineering
Civil Engineering	Mechanical Engineering
Computer Engineering	

## Where can I earn a bachelor's degree in engineering in Washington?

Many universities offer at least some varieties of engineering as an undergraduate major. You can use the College Navigator search engine found at <http://nces.ed.gov/collegenavigator> to find engineering programs in Washington state or around the country.

## How do I prepare to major in engineering?

Here are a few steps that we recommend you take to make sure that engineering is the right choice for you. There are many different types of careers in engineering, and it is important to do some research ahead of time to find the one that best fits your goals. An advisor can help you choose the transfer degree, and what courses you should take while you are here at Seattle Central.

### Step One: Research

- Those who are undecided about a major/career can make an appointment with our Career Exploration Center in BE 1102E take a career assessment test. This assessment can reveal your interests, values, and skills which then match you up with potential careers and programs that prepare you for specific career paths.
- Consider taking ENGR 110 at Seattle Central. This course offers an orientation to the field of engineering and has no prerequisites. It is a great way to find out more about engineering and what you need to do to be successful as an engineering student.
- Our Transfer Center in BE 1102F can help find universities you are interested in attending and guide you through the application process. Admissions for engineering is competitive with an average 3.7 GPA on prerequisite courses.

## Step Two: Pick a Degree

Students planning to major in engineering can pursue the Associate of Science (AS-T) Option #1, Option #2, or DTA degree. Advisors can help students determine which Associate of Science degree is right for you. You may pick up a degree planning worksheet for the AS-T Option #1 ([blue sheet](#)), Option #2 ([green sheet](#)) or DTA ([tan sheet](#)) in BE 1102 lobby.

## Step Three: Make a Long Range Academic Plan

Students planning to major in engineering at a university usually take courses in physics, calculus, and chemistry, as well as general education requirements, to prepare to transfer. The type of engineering you choose may have additional requirements, such as higher-level math, biology, additional chemistry, computer science, engineering, or other courses.

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English/Communication	Mathematics	Physics	Other Courses
<input type="checkbox"/> ENGL& 101	<input type="checkbox"/> Math& 151	<input type="checkbox"/> PHYS& 221	<input type="checkbox"/> CHEM XXX; BIOL XXX
<input type="checkbox"/> ENGL& 102 or CMST	<input type="checkbox"/> Math& 152	<input type="checkbox"/> PHYS& 222	<input type="checkbox"/> CSC 142, 143
	<input type="checkbox"/> Math& 163	<input type="checkbox"/> PHYS& 223	<input type="checkbox"/> MATH 220, 224, 238
			<input type="checkbox"/> ENGR& 214, 215, 224, 225

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**Please note: this is not a complete list of prerequisites. Some required courses are only offered once a year. Make sure to plan out your schedule well in advance with an advisor so that you can include all required courses.**

\*Check prerequisites, admission requirements, and GPA requirements at your intended transfer university early so you can be well-prepared to transfer.

## What are my next steps?

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- Once you have had the chance to explore the diverse career opportunities in engineering you might want to schedule an appointment to meet with an advisor to plan out your course of study. You can make an appointment by stopping by the Advising office in BE 1102D or calling us at 206-934-4068. *(If you are an international student, please stop by International Education Programs in BE 1113).*
- Attend Transfer Fairs and Career & Networking Fairs hosted by our office throughout the year.
- Explore the professional organizations in your area of interest for more information about education and career options.

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Seattle Central College is committed to providing qualified students with a disability an equal opportunity to access the benefits, rights, and privileges of services, programs and activities in an accessible setting appropriate to the student's needs. No student shall, on the basis of her or her disability, be excluded from participation, be denied the benefits of, or otherwise be subject to discrimination under any Seattle Central College program or activity.