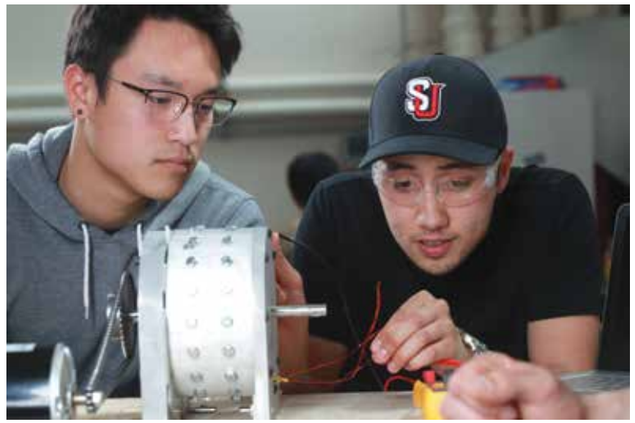
# WHAT SETS US APART

"Our students have opportunities to network with professionals, perform research and take on challenges assigned by industry."

—Jean Jacoby, PhD, Associate Dean

**SENIOR DESIGN PROJECTS SOLVE REAL-WORLD PROBLEMS**
Work on a small student team with companies to apply theory to life and produce real outcomes in computer science, engineering and environmental science. Develop valuable career skills during the year-long, industry-sponsored experience.



**UNDERGRADUATE RESEARCH—EXPAND YOUR POSSIBILITIES**
Work side-by-side with professors to enrich your knowledge and address local and global issues. Have opportunities to attend conferences and co-author journal articles.

## HELPING FUND YOUR FUTURE

Several scholarship opportunities are available to incoming students including the Thomas J. Bannan Scholarship Program. Many scholarships are offered in addition to financial aid and merit awards you may receive through Seattle University. For more information, visit ***www.seattleu.edu/scieng/scholarships***.

### ABOUT SEATTLE UNIVERSITY

Seattle University, founded in 1891, is home to nearly 7,100 undergraduate and graduate students within eight schools and colleges. Located on 50 acres in Seattle's Capitol Hill neighborhood, the Jesuit Catholic university is in the Top 16% among all universities in the nation, according to the *Wall Street Journal/Times Higher Education* "College Rankings 2021."

### MISSION STATEMENT

Seattle University is dedicated to educating the whole person, to professional formation, and to empowering leaders for a just and humane world.

### UNIVERSITY ENROLLMENT

Undergraduate: 4,299
Transfer students: 1,089
Graduate: 2,751
Law: 725
Total: 7,050

### TRANSFER STUDENTS

In Fall 2020, Seattle University welcomed 368 transfer students to campus, more than any other independent university in Washington State.

**AVERAGE CLASS SIZE:** 18 students
All classes are taught by faculty.

**FACULTY-TO-STUDENT RATIO:** 1:11
676 total faculty

SEATTLEU

### LEARN MORE

**College of**
**Science & Engineering**
***www.seattleu.edu/scieng***
se-adv@seattleu.edu
206-296-2500

**ADMISSIONS**
***www.seattleu.edu/undergraduate-admissions***
transfer@seattleu.edu | 206-220-8040

**FINANCIAL AID**
***www.seattleu.edu/sfs***
financialservices@seattleu.edu | 206-220-8020

**VISIT CAMPUS**
Contact Admissions for individual appointments, campus visits and general questions about applying to Seattle University.
***www.seattleu.edu/visit***
visit@seattleu.edu | 206-220-8040

TRANSFER TO SEATTLE UNIVERSITY

# COLLEGE OF SCIENCE & ENGINEERING

SEATTLEU

# THE DIFFERENCE

The College of Science and Engineering academic programs blend collaborative learning with practical research opportunities and hands-on lab work for a superior STEM education. Students interact with professors in small classes and engage with a curriculum that not only provides a strong foundation in major courses but also is globally aware and informed by industry leaders. Located in the thriving urban heart of Seattle, our students are well-situated to partner with leading companies to accelerate their real-world professional experience.

### STATE-OF-THE-ART LABORATORIES AND PROJECT-BASED LEARNING

- Science and engineering students benefit from a 12:1 student-faculty ratio, along with inquiry-based classes that combine hands-on lab work and collaborative learning opportunities.
- Be more competitive to enter graduate school or the job market through engagement with undergraduate research opportunities and industry-sponsored capstone projects.

### TOWARD GREATER INCLUSION AND EQUITY—CLOSING THE GENDER GAP

- Faculty, staff and leaders in the college are committed to doing the work necessary to create a truly equitable culture, one that is inclusive of all students.
- Forty two percent of our full-time faculty and 43 percent of STEM majors are women or identify as female.

### HOLISTIC SUPPORT AND GUIDANCE

- Every student is assigned a faculty advisor in their major to help navigate degree requirements as well as develop career goals and professional formation.
- Professional academic advisors are available through the College of Science and Engineering Advising Center to assist with educational planning, provide personal support and help connect you with comprehensive student resources.

"We strive to help our students develop a strong understanding and mastery of fundamentals to see how these apply in practice. When you leave here excited about the impact you can have on society, then we've done our job."

–Katie Kuder, PhD, Civil Engineering
Professor and Associate Dean

# PREPARE FOR TRANSFER

The following charts outline the required, as well as recommended, courses by major to be completed at another institution. The recommended GPA is also included by major. For a list of courses by institution that have already been evaluated by Seattle U, open the Transfer Equivalency Guide at ***www.seattleu.edu/registrar/transfer-tools***. Another helpful resource for preparing to transfer and to determine the best quarter to apply for admission is to download and compare the junior transfer degree plan for your major with the four-year plan. A complete list of College of Science and Engineering degree plans is found at ***www.seattleu.edu/advising/degrees/scieng***.

■ REQUIRED
▲ ONE QUARTER RECOMMENDED
● RECOMMENDED FOR 90 CREDIT TRANSFERS

## COURSE REQUIREMENTS BY MAJOR

| | BIOLOGY | CELLULAR & MOLECULAR BIOLOGY | MARINE & CONSERVATION BIOLOGY | CHEMISTRY | BIOCHEMISTRY | ENVIRONMENTAL SCIENCE | MATHEMATICS | PHYSICS |
|---|---|---|---|---|---|---|---|---|
| Recommended Minimum GPA | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 2.5 | 2.5 | 2.5 |
| 1 Year Biology with Lab | ■ | ■ | ■ | | ▲ | ■* | | |
| 1 Year General Chemistry with Lab | ■ | ■ | ■ | ■ | ■ | ■* | | |
| 1 Year Organic Chemistry with Lab | ● | ■ | | ● | ● | | | |
| Pre-Calculus (SU Math 1021) | ■ | ■ | ■ | | | ■ | | |
| Calculus I (SU Math 1334) | ●* | ●* | ●* | ■ | ■ | ●* | ■ | ■ |
| Calculus II (SU Math 1335) | | | | ● | ● | ●* | ■ | ● |
| Calculus III (SU Math 1336) | | | | ● | ● | | ● | ● |
| Statistics (SU Math 1210) | | | ● | | | ● | | |
| 1 Year Calculus-Based Physics | | | | ● | ● | ●** | | ■ |

*A minimum of either one year of biology or one year general chemistry required for admissions.
**First two quarters of a year-long sequence recommended, but not required to be calculus-based

## COURSE REQUIREMENTS BY MAJOR

| | COMPUTER SCIENCE | CIVIL ENGINEERING | MECHANICAL ENGINEERING | COMPUTER ENGINEERING | ELECTRICAL ENGINEERING |
|---|---|---|---|---|---|
| Recommended Minimum GPA | 3.0 | 2.75 | 3.0 | 2.75 | 2.75 |
| 1 Quarter General Chemistry with lab | | ■ | ● | | |
| Calculus I (SU Math 1334) | ■ | ■ | ■ | ■ | ■ |
| Calculus II (SU Math 1335) | ● | ■ | ■ | ■ | ■ |
| Calculus III (SU Math 1336) | ● | ■ | ■ | ■ | ■ |
| Linear Algebra (SU Math 2320) | ● | ● | ● | ● | ● |
| Multivariable Calculus (SU Math 2330) | | ● | ● | ● | ● |
| Differential Equations (SU Math 2340) | | ● | ● | ● | ● |
| 1 Year Calculus-Based Physics | ●* | ■ | ● | ■ | ■ |
| 2 Quarters Programming (Python, Java or C++) | ■ | ▲ | | ● | ● |
| Statics (SU MEGR 2100) | | ● | ● | | |
| Dynamics (SU MEGR 2300) | | ● | ● | | |
| Mechanics of Materials (SU CEEGR 2210) | | ● | ● | | |
| Circuits I (SU ECEGR 2100) | | | | ● | ● |
| CAD/Solid Works (SU CEEGR 1050 for Civil SU MEGR 1050 for Mechanical) | | ● | ● | | |

*Computer science applicants should complete either (a) A three quarter calculus-based physics series -or- (b) The equivalent of PHYS 1210 + 1211 Mechanics + lab, plus the equivalent of any two majors-level lab science courses in physics, chemistry and/or biology.*

### MAXIMIZING TRANSFER CREDIT

The Core Curriculum is Seattle University's common undergraduate educational experience. The key elements are foundational knowledge in several relevant disciplines, critical inquiry, reflection on learning and values and preparation for life as effective and ethical global citizens. For transfer students, Core requirements are based on the number of credits and type of degrees earned at your previous institution. Science and engineering students transferring with 75 or more credits or with a transferable degree will maximize transfer credits that satisfy Core Curriculum requirements. For more details, visit ***www.seattleu.edu/registrar/transfer-tools***.