

Admissions Expectations

1. Institutional Recommendation

The Dual Degree liaison officer at your current institution must certify aptitude for engineering study. Also, you are expected to complete a bachelor's level, non-engineering degree at your current institution no later than receipt of the engineering degree from WashU.

2. Minimum Cumulative Grade Point Average

Admission requirements are the same for graduate and undergraduate programs. A GPA of B+ (3.25/4.0) or better, both overall and in science and mathematics courses is required for admission to the Dual Degree Program. Applicants with lower GPAs are considered on a case-by-case basis; please have liaison officer write a letter of support.

Dual Degree Admissions Checklist

- Online application (certified by liaison officer)
- Official transcript

Financial Assistance & Scholarships

The Harold P. Brown Engineering Fellowships are merit scholarships for dual degree students who excel both academically and in co-curricular achievements. In addition, all students who enter the Engineering Dual Degree Undergraduate & Graduate Degrees (Graduate 3-year Option) are awarded the Graduate Affiliation Scholarship which guarantees a 50 percent tuition discount for the first year, a 55 percent discount the second year and a 60 percent discount the third year. International and domestic students are eligible.

Domestic students who enter the Engineering Dual Degree Undergraduate Degree (Undergraduate 2-year Option) may also be eligible for federal grants, student loans and part-time employment. Participants in the undergraduate 2-year option are classified as an undergraduate student and therefore may qualify for undergraduate financial support; if you are currently a senior, you may be eligible for more undergraduate support if you wait and graduate with both undergraduate degrees from both institutions at the same time.

Admissions Deadline

- February 28

Harold P. Brown Fellowship Deadline

- March 10

Financial Assistance Deadline

- March 15

Dual Degree Program Contact Information

Ron Laue

Assistant Dean

Kate Whitaker

Administrative Assistant

(314) 935-6166

eng-DualDegree@wustl.edu

engineering.wustl.edu/dualdegree

Engineering Dual Degree Program

Undergraduate and Graduate Options



engineering.wustl.edu/dualdegree

Across Disciplines. Across the World.®

The School of Engineering & Applied Science is ranked among *US News & World Report's* top Engineering Schools, and focuses intellectual efforts through a new convergence paradigm, particularly as applied to medicine and health, energy and environment, entrepreneurship and security.

The Dual Degree Program is an attractive alternative to traditional engineering curricula. Program graduates are “liberally educated engineers” with strong communication and problem-solving skills, a broad background in the humanities and social sciences and a high-quality technical education.

Advantages of Dual Degree Program:

- opportunity to complete multiple degrees in diverse areas
- acquire scientific problem-solving skills necessary to be effective in today's workplace
- extra time to pursue other academic, athletic or extracurricular interests
- training to pursue professional license if desired
- opportunity to use the supportive, personalized environment of a small liberal arts institution to develop the skills and confidence needed for success in engineering

To prepare for career opportunities that require multidisciplinary teams to address challenges, students in the Dual Degree Program will develop strong oral and written communications, problem-solving and teamwork skills.

Engineering Undergraduate Degree (Undergraduate 2-year Option)

Students enter as undergraduate students and complete a **liberal arts degree** (from their current school) and an **engineering undergraduate degree** (from WashU). Participants are undergraduate students who commonly follow a 3-2 or a 4-2 schedule, entering WashU after their junior or senior year.

Engineering Undergraduate & Graduate Degrees (Graduate 3-year Option)

Students enter as graduate students and complete both a **liberal arts degree** (from their current school) and then an **engineering undergraduate degree & engineering master's degree** in three years at WashU. The engineering master's degree and undergraduate degree can be in different areas. Participants commonly follow a 3-3 or 4-3 schedule, entering WashU after their junior or senior year. Students entering this option receive the Graduate Affiliation Scholarship which guarantee a 50 percent tuition discount the first year, a 55 percent discount the second year and a 60 percent discount the third year. GRE is not required for admission.

Degrees Awarded

Biomedical Engineering • Chemical Engineering • Computer Engineering • Computer Science
Electrical Engineering • Mechanical Engineering • Systems Science & Engineering

Course Requirements

These are the core requirements for engineering study, which should be completed before entry into WashU:

- **Chemistry:** one semester of general chemistry with lab
- **Computer Programming:** one course in a high-level language (matlab preferred for Biomedical Engineering, Chemical Engineering and Mechanical Engineering)
- **English Composition:** one course, acceptable examination scores or college certification of proficiency
- **Humanities & Social Sciences:** no fewer than 15 semester hours in approved areas (This sequence must include six semester hours in Humanities and three semester hours in Social Sciences.)
- **Mathematics:** a calculus sequence which includes exposure to multivariable calculus and a separate course in differential equations (Matrix Algebra strongly recommended)
- **Physics:** one-year calculus-based sequence with lab
- **Total Credits:** a minimum of 90 semester hours of transferable college credit (courses with grades below C- do not transfer)

In addition, there are some department-specific requirements:

- **Biomedical Engineering:** a one-year biology sequence that covers cellular, molecular and developmental biology and genetics and a second semester of general chemistry with lab
- **Chemical Engineering:** one semester of biology that covers cellular, molecular and developmental biology, a second semester of general chemistry with lab, and a one-year sequence of organic chemistry with lab (physical chemistry and a course on energy and environment from a scientific point of view are strongly recommended).
- **Computer Science & Computer Engineering:** a second computer programming course.
Note: Computer Science majors only are not required to complete chemistry

The Career Center and Experiential Learning Opportunities

Students are encouraged to pursue independent research projects, internships, cooperative education, international experiences or graduate study. The WashU Career Center's ultimate goal is for students to graduate with job placement, acceptance into graduate or professional school or commitment to a short-term program.

J-Term (January Intensive Term)

J-Term is an opportunity for Dual Degree students to explore engineering, WashU and St. Louis. Students will complete a special, engineering intensive course in a concentrated 11-day format from late December to early January. Registration is required.

engineering.wustl.edu/dualdegreejterm