Pathways into Engineering at Carleton

### 3-2 Engineering (BA/BS) Program

**Advantages:**
- Preferred admission into Washington University (St. Louis)
- BA & BS in 5 years
- ABET Accredited BS Degree (allows you to take the engineering licensure exam needed for select engineering professions)

**Disadvantages:**
- Less opportunity to take full advantage of Carleton opportunities (study abroad, sports, etc.)
- Do not graduate with your class
- If plan to get an MS or PhD, adds an additional 2+ years of courses, tuition, and fees
- Limited to Washington University

### 4-2 Engineering (BA/BS) Program

**Advantages:**
- Preferred admission into Washington University
- BA & BS in 6 years
- Take full advantage of Carleton opportunities (study abroad, sports, etc.)
- Graduate with class
- ABET Accredited BS Degree

**Disadvantages:**
- If plan to get an MS or PhD, adds an additional 2+ years of courses, tuition, and fees
- Limited to Washington University

### 3-3 or 4/3 Engineering (BA/BS/MS) Washington University Program

**Advantages:**
- BA, BS & MS in 6 years
- Take full advantage of Carleton opportunities (study abroad, sports, etc.)
- Admission grants 50%/55%/60% automatic tuition waivers for each successive year at Wash U
- ABET Accredited BS Degree

**Disadvantages:**
- Less opportunity to take full advantage of Carleton opportunities (study abroad, sports, etc.)
- Do not graduate with your class (unless you take the 4-3 option)

### Graduate from Carleton then pursue MS or PhD (Most common path)

(Also see Carleton Pathways: [https://apps.carleton.edu/pathways/engineering/engineering_technology/](https://apps.carleton.edu/pathways/engineering/engineering_technology/))

**Advantages:**
- Take full advantage of Carleton opportunities (study abroad, sports, etc.)
- Graduate with class
- Access to any school that has an engineering program

**Disadvantages:**
- May not get into the graduate program you want (Although Carls have excellent acceptance rates)
- Note: There are recommended courses on the pre-engineering website that you may want to take to supplement your other coursework to prepare you for an engineering program. (See General Engineering Curriculum Guide)

### Graduate from Carleton then get a job in engineering

**Advantages:**
- Can study abroad
- Graduate with class

**Disadvantages:**
- Competing with individuals who have a known degree.
- Need to be able to clearly articulate your skills, especially communication and technical skills. (You are qualified but hiring managers may not know that.)
- May need to do more networking to find in-roads
- Note: There are recommended courses on the pre-engineering website that you may want to take to supplement your other coursework to prepare you for an engineering perspective. (See General Engineering Curriculum Guide)

Pre-Engineering Website:
- Direct Link: [https://apps.carleton.edu/curricular/engineering/about/](https://apps.carleton.edu/curricular/engineering/about/)
- Or through the physics department website: [https://apps.carleton.edu/curricular/physics/](https://apps.carleton.edu/curricular/physics/) > Resources > Pre-Professional Programs and Interdisciplinary Study
3-2/4-2/3-3/4-3 Program Requirements

1) Complete Carleton’s distribution Requirements
2) Complete a Major at Carleton (Typically: Physics, Math, Computer Science, or Chemistry)
3) Complete Washington University Requirements
   ● Science & Math Course Pre-reqs in Math, Physics, Chemistry, Computer Science
   ● Other courses required for certain engineering majors at Washington University
   ● Humanities and Social Sciences courses (27 credits)
   ● At least 162 credits with a C- or better
   ● GPA Requirement: A GPA of 3.25/4.0 or better, both overall and in science and mathematics courses. Applicants that do not meet the GPA requirement are considered on a case-by-case basis
   ● Students missing one of the required courses will be considered on a case-by-case basis
   ● See the Washington University Curriculum Guide Available on the Pre-Engineering website for more detailed information on the coursework
     https://apps.carleton.edu/curricular/engineering/about/

Engineering Interest Email List

Carleton’s Engineering Advisors maintain an email list for students interested in engineering-related opportunities. The opportunities include, but are not limited to: Washington University Dual Degree Program Director campus visit, Washington University winter break courses, Career Center events, departmental speakers, webinars, scholarships, and competitions.

Contact Us

For more information and/or to be added to the Engineering Interest email list, please contact an engineering advisor to make an appointment: engineering@carleton.edu