

# GEOLOGICAL ENGINEERING, BS

## HOW TO GET IN

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#### ADMISSION TO THE COLLEGE AS A FIRST-YEAR STUDENT

Students applying to UW-Madison (<https://www.admissions.wisc.edu/apply/>) need to indicate an engineering major (<https://engineering.wisc.edu/degrees-programs/undergraduate/>) as their first choice in order to be considered for direct admission to the College of Engineering. Direct admission means that students get to start their college career in the engineering program of their choice and have access to engineering-specific resources and facilities. Students who are directly admitted need to meet progression requirements (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/progression/>) at the end of the first year to guarantee advancement in that program.

#### CURRENT UW-MADISON STUDENTS (CROSS-CAMPUS TRANSFER TO ENGINEERING)

Requirements	Details
How to get in	Application required. Meeting the requirements listed below does not guarantee admission. ( <a href="https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students">https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students</a> ( <a href="https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/">https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/</a> ))

Application restrictions	<ul style="list-style-type: none"> <li>• Students may apply a maximum of two times.</li> <li>• Students who have earned more than 72 course credits at UW-Madison (as indicated on the UW-Madison transcript) at the time of application are not eligible to apply for admission to the College of Engineering. Course credits in progress at the time of application are not included in the COE Credit Limit.</li> <li>• Students may apply to only one engineering degree program per admissions cycle.</li> <li>• Students who meet course/credit requirements and have a Core GPA below 2.500 would not be considered for admission in their selected engineering degree program (major) without an appeal process. All graded UW-Madison courses referenced in the Foundational Courses List and any degree program engineering courses level 200 or higher will be counted in the Core GPA (excludes E P D, INTEREGR, special topics, independent study, and seminar courses). All graded UW-Madison courses count in the Overall GPA. For one and only one of these core courses that a student has repeated, the more recent of the two grades will be used in the calculation of Core and Overall GPAs for admission purposes. Students may not be considered for admission if on academic probation for GPA reasons at time of review.</li> </ul>
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Credits required to get in	24 graded credits completed at UW-Madison, including at least one full-time (12 credit) semester. English as a Second Language course credits count toward the 24 credit minimum.
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Courses required to get in	Engr Comm 1 (Comm A) requirement taken on a graded basis at UW-Madison. If the Comm A requirement has been satisfied through placement test, AP/IB, or transfer credit, then a liberal studies course of at least 3 credits (breadth designation of Humanities, Literature, or Social Sciences) must be taken on a graded basis at UW-Madison.
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Math course sequence through MATH 222.

Four foundational courses completed on a graded basis at UW-Madison, as defined in the Foundational Courses List below.

#### Foundational courses list

**Four Foundational Courses must be completed at UW-Madison as defined in 1. and 2.**

##### 1. Math Foundation

A minimum of two math courses numbered 221 or higher; one math course 300 level or higher; or calculus sequence completed through MATH 234. Excludes MATH 228, MATH/HIST SCI 473, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

##### 2. Engineering Foundation

A minimum of two courses as defined below:

**Chemical Engineering:**

- (i) one course must be CHEM 104 or higher
- (ii) one course must be PHYSICS 201/E M A 201 or higher

If the above two course requirements are completed with transfer or test credit, select from additional engineering foundation courses in (ii) below.

**Aerospace Engineering, Biomedical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Engineering Mechanics, Engineering Physics, Environmental Engineering, Geological Engineering, Industrial Engineering, Materials Science and Engineering, Mechanical Engineering, Nuclear Engineering:**

- (i) one course must be CHEM 104 or higher OR PHYSICS 201/E M A 201 or higher
- (ii) one other engineering foundation course from the following subject codes:

- Chemistry
- E M A 201, E M A 202, E M A 303
- PHYSICS 201 or higher
- Statistics, calculus-based
- COMP SCI 200, COMP SCI 220, COMP SCI 300 or higher, excluding COMP SCI 304
- excludes special topics, independent study, seminar, pass/fail, and credit/no credit courses

**3. Additional foundational course options, if applicable**

If the math and engineering foundational courses for the degree program are complete, then degree program engineering courses 200 level or higher can be taken to complete the Four Foundational Courses requirement. Excludes EPD, InterEGR, special topics, independent study, seminar, pass/fail, and credit/no credit courses.

**Additional considerations**

Cross-campus admission is selective. The admissions committee considers applicants' grades/grade trends, academic rigor, and personal statement. The College of Engineering offers an online information tutorial and advising (<https://engineering.wisc.edu/admissions/undergraduate/cross-campus-students/>) for students to learn about the cross-campus transfer process.

Semester	Deadline to apply	Decision notification timeline
To apply for a fall start	Mid May	Late June
To apply for a spring start	Late December/Early January	Late January
To apply for a summer start	This program does not accept applications to start in the summer.	

**OFF-CAMPUS TRANSFER TO ENGINEERING**

With careful planning, students at other accredited institutions can transfer coursework that will apply toward engineering degree requirements at UW–Madison. Off-campus transfer applicants are considered for direct admission to the College of Engineering by applying to the Office of Admissions with an engineering major listed as their first choice. Those who are admitted to their intended engineering program must meet progression requirements (<https://engineering.wisc.edu/admissions/undergraduate/transfer-from-off-campus/>) at the point of transfer or within their first two semesters at UW–Madison to guarantee advancement in that program. Transfer admission to the College of

Engineering is selective. A minimum of 30 credits in residence in the College of Engineering is required after transferring, and all students must meet all requirements for their engineering major.

The College of Engineering has dual degree transfer agreements with select four-year UW System campuses and a transfer agreement with Madison College. Eligible students in COE's transfer agreements automatically meet progression at the point of transfer.

Off-campus transfer students are encouraged to discuss their interests, academic background, and admission options with the Transfer & Academic Program Manager in the College of Engineering: [ugtransfer@engr.wisc.edu](mailto:ugtransfer@engr.wisc.edu).

**SECOND BACHELOR'S DEGREE**

The College of Engineering does not accept second undergraduate degree applications. Second degree student (<https://engineering.wisc.edu/admissions/undergraduate/adult-students-second-degree-students/>)s (<https://engineering.wisc.edu/student-services/undergraduate-student-advising/>) might explore the Biological Systems Engineering program at UW–Madison, an undergraduate engineering degree elsewhere, or a graduate program in the College of Engineering.