



## College of Engineering Change of Major Requirements

### Effective Spring 2017, Summer 2017, and Fall 2017 Application Cycles

The steps below outline the eligibility requirements for students admitted to a **non-engineering major** to declare one of the 14 degree-granting engineering majors (*non-engineering students cannot declare General Engineering*). Admission to a degree-granting engineering major is not guaranteed.

Aerospace Engineering (AE)	Electrical Engineering (EE)
Biological Systems Engineering (BSE)	Engineering Science and Mechanics (ESM)
Chemical Engineering (CHE)	Industrial and Systems Engineering (ISE)
Civil Engineering (CE)	Materials Science and Engineering (MSE)
Computer Engineering (CPE)	Mechanical Engineering (ME)
Computer Science (CS)	Mining Engineering (MINE)
Construction Engineering and Management (CEM)	Ocean Engineering (OE)

#### 1. **\* Course Requirements to Enter Engineering Majors**

- <sup>1</sup> **CHEM 1035:** General Chemistry
- <sup>1</sup> **CHEM 1045:** General Chemistry Lab
- <sup>1</sup> **ENGE 1215:** Foundations of Engineering (C- minimum)
- ENGL 1105:** First-Year Writing
- <sup>1</sup> **MATH 1225:** Calculus
- ENGE 1216:** Foundations of Engineering (C- minimum)
- ENGL 1106:** First-Year Writing
- MATH 1226:** Calculus
- PHYS 2305:** Foundations of Physics

<sup>1</sup> Courses may not be available for non-engineering students during fall semesters, and often require summer enrollment.

#### 2. **Credit Hours**

2.1. Students must complete a minimum of 12 GPA hours<sup>2</sup> at Virginia Tech.

<sup>2</sup> GPA hours include any A-F graded courses taken at Virginia Tech (excluding W's and P/F if the class is passed).

#### 3. **GPA**

Degree-granting engineering majors accept non-engineering applicants on a space-available basis

3.1 Students must have a minimum 3.2 overall GPA.

3.2 Students must have a minimum 3.2 GPA in the [\\*course requirements](#).

#### 4. **Essay Questions**

Students must complete the College of Engineering Internal Transfer essay questions (limit of 350 words per question). Submissions should be made at <http://www.enge.vt.edu/em/essay>, which will open one month prior to the change of major application opening and will close on the change of major close date during each application cycle.

#### 5. **Coursework Completion**

All required coursework must be completed (not currently enrolled) at the time of application.

5.1. Students using transfer credit to meet any of the course requirements must show one of the following:

- Course transfer credit awarded on the Virginia Tech Unofficial Transcript
- An unofficial copy of transcript from transfer institution
  - The unofficial transcript must include the student's name, the institution's name, the course number and name, and the grade earned in the course.
  - The unofficial transcript should be saved as a .pdf and attached in the survey found at <http://www.enge.vt.edu/em/transfercrredit> by the deadline indicated on the Engineering Education change of major website (<http://www.enge.vt.edu/em>).

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## ENGE 1215 and ENGE 1216 Enrollment Details

### Enrolling in ENGE 1215

To enroll in ENGE 1215 at Virginia Tech students must be [math ready](#), meet the [computer requirement](#), and purchase the [engineering software bundle](#).

- **Fall 2016:** Not available to non-engineering students.
- **Spring 2017:** Available on a space available basis to non-engineering students with a minimum 3.2 overall Virginia Tech GPA.
- **Summer I 2017:** Available on a space available basis to non-engineering students with a minimum 3.2 overall Virginia Tech GPA.
- **Summer II 2017:** Not available to non-engineering students.

### Enrolling in ENGE 1216

To enroll in ENGE 1216 students must have earned a minimum grade of “C-” in ENGE 1215 or ENGE 1024.

- **Fall 2016:** Available on a space available basis to non-engineering students with a minimum 3.0 overall Virginia Tech GPA.
- **Spring 2017:** Available on a space available basis to non-engineering students with a minimum 3.2 overall Virginia Tech GPA.
- **Summer I 2017:** Available on a space available basis to non-engineering students with a minimum 3.2 overall Virginia Tech GPA.
- **Summer II 2017:** Available on a space available basis to non-engineering students with a minimum 3.2 overall Virginia Tech GPA.

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