### Undergraduate Majors and Minors, School of Engineering

#### Bachelor of Science in the School of Engineering

Departments within the School of Engineering offer programs leading to the Bachelor of Science degree in the following fields:

- Aeronautics and Astronautics ([http://exploredegrees.stanford.edu/soe-ug-majors/aeroastro](http://exploredegrees.stanford.edu/soe-ug-majors/aeroastro))
- Bioengineering ([http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering](http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering))
- Chemical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/chemeng](http://exploredegrees.stanford.edu/soe-ug-majors/chemeng))
- Civil Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/civengineering](http://exploredegrees.stanford.edu/soe-ug-majors/civengineering))
- Computer Science ([http://exploredegrees.stanford.edu/soe-ug-majors/cs](http://exploredegrees.stanford.edu/soe-ug-majors/cs))
- Electrical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/ee](http://exploredegrees.stanford.edu/soe-ug-majors/ee))
- Environmental Systems Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/ese](http://exploredegrees.stanford.edu/soe-ug-majors/ese))
- Environmental Systems Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/envse](http://exploredegrees.stanford.edu/soe-ug-majors/envse))
- Atmospheric/Meteorological Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/atmos-energy](http://exploredegrees.stanford.edu/soe-ug-majors/atmos-energy))
- Biomedical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering](http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering))

The School of Engineering itself offers interdisciplinary programs leading to the Bachelor of Science degree in Engineering with specializations in:

- Architectural Design ([http://exploredegrees.stanford.edu/soe-ug-majors/archdesign](http://exploredegrees.stanford.edu/soe-ug-majors/archdesign))
- Biomedical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering](http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering))
- Biomedical Computation ([http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation](http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation))
- Engineering Physics ([http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics](http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics))
- Product Design ([http://exploredegrees.stanford.edu/soe-ug-majors/productdesign](http://exploredegrees.stanford.edu/soe-ug-majors/productdesign))

In addition, students may elect a Bachelor of Science in an Individually Designed Major in Engineering.

#### Bachelor of Arts and Science (B.A.S.) in the School of Engineering

This degree is available to students who complete both the requirements for a B.S. degree in engineering and the requirements for a major or program ordinarily leading to the B.A. degree. For more information, see the "Undergraduate Degrees ([http://exploredegrees.stanford.edu/undergraduatedegreesandprograms/#bachelorstext](http://exploredegrees.stanford.edu/undergraduatedegreesandprograms/#bachelorstext))" section of this bulletin.

### Undergraduate Honors in the School of Engineering

The following bachelor’s programs in the School of Engineering offer an honors option for qualified students:

- Aeronautics and Astronautics ([http://exploredegrees.stanford.edu/soe-ug-majors/aeroastro](http://exploredegrees.stanford.edu/soe-ug-majors/aeroastro))
- Architectural Design ([http://exploredegrees.stanford.edu/soe-ug-majors/archdesign](http://exploredegrees.stanford.edu/soe-ug-majors/archdesign))
- Atmosphere/Energy ([http://exploredegrees.stanford.edu/soe-ug-majors/atmos-energy](http://exploredegrees.stanford.edu/soe-ug-majors/atmos-energy))
- Bioengineering ([http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering](http://exploredegrees.stanford.edu/soe-ug-majors/bioengineering))
- Biomedical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalengineering](http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalengineering))
- Biomedical Computation ([http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation](http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation))
- Computer Science ([http://exploredegrees.stanford.edu/soe-ug-majors/cs](http://exploredegrees.stanford.edu/soe-ug-majors/cs))
- Electrical Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/ee](http://exploredegrees.stanford.edu/soe-ug-majors/ee))
- Engineering Physics ([http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics](http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics))
- Environmental Systems Engineering ([http://exploredegrees.stanford.edu/soe-ug-majors/envse](http://exploredegrees.stanford.edu/soe-ug-majors/envse))
- Materials Science ([http://exploredegrees.stanford.edu/soe-ug-majors/matsci](http://exploredegrees.stanford.edu/soe-ug-majors/matsci))
- Chemical Engineering Minor ([http://exploredegrees.stanford.edu/soe-ug-majors/chemeng](http://exploredegrees.stanford.edu/soe-ug-majors/chemeng))
- Biomedical Computation ([http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation](http://exploredegrees.stanford.edu/soe-ug-majors/biomedicalcomputation))
- Engineering Physics ([http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics](http://exploredegrees.stanford.edu/soe-ug-majors/engrphysics))
- Product Design ([http://exploredegrees.stanford.edu/soe-ug-majors/productdesign](http://exploredegrees.stanford.edu/soe-ug-majors/productdesign))

### Additional Information

Additional information on core requirements for the B.S and B.A.S. in the School of Engineering is available on the Bachelor’s tab ([http://exploredegrees.stanford.edu/soe-ug-majors/computer.science/#bachelors/text](http://exploredegrees.stanford.edu/soe-ug-majors/computer.science/#bachelors/text)) of this section of this bulletin.

### Minor in the School of Engineering

An undergraduate minors in some Engineering programs may be pursued by interested students; see the Handbook for Undergraduate Engineering Programs, or consult with a department’s undergraduate program representative or the Office of Student Affairs, Huang Engineering Center, Suite 135.

Minors are offered in the following programs:

- Aeronautics and Astronautics (AA) Minor ([http://exploredegrees.stanford.edu/schoolofengineering/aeronauticsandastronautics/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/aeronauticsandastronautics/#minortext))
- Chemical Engineering Minor ([http://exploredegrees.stanford.edu/schoolofengineering/chemicalengineering/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/chemicalengineering/#minortext))
- Civil Engineering (CE) Minor ([http://exploredegrees.stanford.edu/schoolofengineering/civilandenvironmentalengineering/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/civilandenvironmentalengineering/#minortext))
- Computer Science (CS) Minor ([http://exploredegrees.stanford.edu/schoolofengineering/computerscience/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/computerscience/#minortext))
- Electrical Engineering (EE) Minor ([http://exploredegrees.stanford.edu/schoolofengineering/electricalengineering/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/electricalengineering/#minortext))
- Environmental Systems Engineering (EnvSE) Minor ([http://exploredegrees.stanford.edu/schoolofengineering/environmentalengineering/#minortext](http://exploredegrees.stanford.edu/schoolofengineering/environmentalengineering/#minortext))
• Management Science and Engineering (MS&E) Minor (http://exploredegrees.stanford.edu/schoolofengineering/managementscienceandengineering/#minortext)
• Materials Science and Engineering (MATSCI) Minor (http://exploredegrees.stanford.edu/schoolofengineering/materialsscienceandengineering/#minortext)
• Mechanical Engineering (ME) Minor (http://exploredegrees.stanford.edu/schoolofengineering/mechanicalengineering/#minortext)

General requirements and policies for a minor in the School of Engineering are:

1. A set of courses totaling not less than 20 and not more than 36 units, with a minimum of six courses of at least 3 units each. These courses must be taken for a letter grade except where letter grades are not offered, and a minimum GPA of 2.0 within the minor course list must be maintained (departments may require a higher GPA if they choose).
2. The set of courses should be sufficiently coherent as to present a body of knowledge within a discipline or subdiscipline.
3. Prerequisite mathematics, statistics, or science courses, such as those normally used to satisfy the school’s requirements for a department major, may not be used to satisfy the requirements of the minor; conversely, engineering courses that serve as prerequisites for subsequent courses must be included in the unit total of the minor program.
4. Courses used for the major and/or minor core must not be duplicated within any other of the student’s degree programs; that is, students may not overlap (double-count) courses for completing core major and minor requirements.

Departmentally based minor programs are structured at the discretion of the sponsoring department, subject only to requirements 1, 2, 3, and 4 above. Interdisciplinary minor programs may be submitted to the Undergraduate Council for approval and sponsorship. A general Engineering minor is not offered.