For information on the College of Engineering and its undergraduate programs, contact:

Office of Student Affairs
1170 Engineering
5050 Anthony Wayne Drive
Wayne State University
Detroit, MI 48202

313-577-3780
studentaffairs@eng.wayne.edu

For information on the Engineering Bridge Program, contact:

Office of Academic Affairs
1172 Engineering
5050 Anthony Wayne Drive
Wayne State University
Detroit, MI 48202

313-577-3040
academicaffairs@eng.wayne.edu

Wayne State University
College of Engineering
www.eng.wayne.edu
**Degree Programs**

The College of Engineering offers ABET accredited Bachelors Degree Programs in five fields:

- Chemical Engineering
- Civil Engineering
- Electrical Engineering
  - Computer Option available
- Industrial Engineering
  - Manufacturing Option available
  - Production Management Leadership Program available
- Mechanical Engineering

Students in the College of Engineering must satisfy the requirements of their major program along with the General Education requirements of the University. Students interested in earning concurrent degrees (two different bachelor’s degrees) or a minor will be able to pursue these options in conjunction with their engineering degree. Interested students should meet with the Associate Dean for Academic Affairs to discuss the requirements of such programs.

**Admission to the College of Engineering**

Students may apply to the College of Engineering through the University Admissions Office. The recommended preparation for students applying to Engineering includes the following:

- 4 years of mathematics (including Algebra, Geometry, and Trigonometry)
- 1 year of Physics
- 1 year of Chemistry
- 4 years of English
- 2 years of Social Science or Foreign Language

After admission to the College of Engineering, students will be placed in one of three programs according to their academic background.

**Engineering Bridge Program**

The Engineering Bridge Program is designed to provide those students who are interested in engineering but who may not have the necessary background in math and science to enter the four-year curriculum – with a firm foundation in these subjects. All students who are eligible for admissions to Wayne State can be admitted to the Engineering Bridge Program.

The Bridge Program provides students with a supportive environment as they pursue their foundation courses. Students enroll in their classes with peer groups, which meet with volunteer mentors on a weekly basis to discuss engineering and the students’ courses. Bridge students receive close attention from the Dean’s Office and the Academic Advisors in Engineering, so that academic support – including tutoring services – can be made available early if any academic difficulty is experienced. Successful completion of the Engineering Bridge Program courses (a cumulative gpa of 3.0 or above with no grade lower than a C-) allows students to transfer to the Pre-Professional program of their choice. The Bridge program is designed to prepare students to succeed in the pre-professional and professional engineering programs.

**Pre-Professional Programs**

The first leg of the required Engineering curriculum is the Pre-Professional Program. Students may be admitted to the Pre-Professional Program directly from high school (either as an undecided engineer or having selected a major) or after having successfully completed the Engineering Bridge program. Direct admission from high school requires students to meet all of the following criteria:

- 2.5 overall gpa, 3.0 in math and science
- Minimum of 22 on the Math ACT (550 on the Math SAT)
- Placement into MAT 1800, CHM 1225, and ENG 1020 or above

In the Pre-Professional Program, students complete their math and science courses and their introductory (1000- and 2000-level) engineering courses. The cornerstone of the Pre-Professional program is BE 1200 – an introductory, hands-on design course that introduces students to the challenges and excitement of engineering design. Once these requirements have been met, students move into the Professional program of their identified major in order to complete their advanced engineering courses.

**Professional Programs**

The Professional Programs are the final leg of a student’s undergraduate engineering education. Outstanding students may be admitted to the Professional Program of their choice directly from high school. This requires students to have achieved all of the following:

- 3.5 gpa – overall as well as in math and science
- Minimum of 26 on the Math ACT (650 on the Math SAT)
- Placement into MAT 2010, CHM 1225, and ENG 1020 or above

Students directly admitted to the Professional Program must have an identified major. Direct admission to the Professional Program does not change the degree requirements. Within the Professional Program, students complete their 3000-, 4000-, and 5000-level engineering coursework.

**Honors Programs and AGRADE**

Students who qualify for the University Honors Program are encouraged to pursue this option as they complete their engineering program. Many of the required courses for engineering students – including English, calculus, and biology – can be taken for Honors credit. In addition, Honors-Option can be elected for engineering courses in order to satisfy a portion of the 24 required credits for University Honors.

Students interested in earning Engineering Honors in addition to University Honors should meet with the Associate Dean for Academic Affairs to plan their curriculum. This requires taking a minimum of 12 of the 24 credits in Honors-designated courses within Engineering, as well as conducting the required Honors Thesis within the College.

Students who excel in their undergraduate program may apply in their junior year to the AGRADE program. This program allows students to earn an MS degree in their major field, or a related engineering discipline, through the completion of 16 credits in addition to their BS requirements. This additional work is typically completed in one year, instead of the two years.
generally spent on an MS degree. In addition, the AGRADE program saves students a significant portion of the tuition costs associated with their graduate work.