Within these eight academic departments, the Bagley College of Engineering is able to offer twelve separate degree programs at the undergraduate level. These degree programs include:

- B.S. in Aerospace Engineering
- Aeronautics Concentration
- Astronautics Concentration
- B.S. in Biological Engineering
- Biomedical Engineering
- B.S. in Chemical Engineering
- Chemical Engineering Practice Concentration
- Chemical Engineering Research and Development Concentration
- Biomolecular Engineering Concentration
- B.S. in Civil Engineering
- Environmental Engineering Concentration
- Geotechnical Engineering Concentration
- B.S. in Computer Science
- B.S. in Electrical Engineering
- B.S. in Industrial Engineering
- B.S. in Mechanical Engineering
- Bioengineering Concentration
- B.S. in Petroleum Engineering
- B.S. in Software Engineering

To gain real-world experience, students are able to be taught by professors actively involved in state-of-the-art research. Being a part of the most up-to-date research allows students to gain practical experience.

To be recruited for jobs in a wide variety of fields, more than 370 companies routinely visit MSU to recruit BCoE students for permanent positions.

To gain real-world experience before graduation, research opportunities are available to undergraduate students, as well as abundant co-op and internship opportunities.

Through participation in competitions and events, like the Space Cowboys rocket team, EcoCar, NASA Challenge, and Engineers Without Borders, students can also boost their resume by enrolling in the cooperative education program or earning an entrepreneurship certificate.

With today's integrated global economy, engineers must understand other cultures and ways of doing business by being a part of collaborations that span the globe in order for engineering students to be better prepared for the global workplace. The BCoE has developed opportunities and joined with other universities to provide students and faculty with opportunities to gain international experience by studying abroad.

With an emphasis on preparing students for the business of engineering, the Bagley College of Engineering offers academic support in the form of introductory courses, mentoring and professional/technical societies. The Engineering Living Learning Community (ELLC) provides first-year engineering students the opportunity to participate in the global experience. The college is committed to providing students the opportunity to gain experience in the professional world of engineering.

An important part of the student experience is the ability to be taught by faculty experts who visit MSU's campus. The community also helps students develop essential skills for a successful career in engineering by being a part of collaborations that span the globe. In order to help engineering students be better prepared for the global workplace, the BCoE has developed opportunities and joined with other universities to provide students and faculty with opportunities to gain international experience by studying abroad.

With over 35 organizations, including Society of Women Engineers, National Society of Black Engineers, Theta Tau Professional Engineering Fraternity, Society of Hispanic Professional Engineers, and Engineers Without Borders, students are able to gain insight into the professional world of engineering.

Involvement in MSU's Cooperative Education Program allows students to earn money and gain practical experience.

The BCoE offers numerous annual scholarships to its students.

MSU's Office of Admissions and Scholarships offers additional scholarships for new and transfer students.

MSU's Department of Student Financial Aid assists students in receiving loans or enrolling in a Brinco (brinstruction) program.

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