COLLEGE OF ENGINEERING

The College of Engineering comprises eight academic units of instruction and research. These units offer programs of study and research leading to bachelor's, master's, and doctoral degrees. Some also offer programs in one or more subdisciplines or subspecialties.

The programs in engineering are designed to provide a fundamental understanding of the engineering sciences (which are based on mathematics and the natural sciences), of the basic concepts of the humanities and social sciences, and an understanding of the manner in which these elements are interwoven in engineering practice. Each curriculum provides enough flexibility through elective course opportunities to permit a certain amount of program individualism while meeting basic requirements.

The eleven undergraduate engineering programs are accredited as follows:

- The Aerospace Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Aerospace and Similarly Named Engineering Programs.
- The Biomedical Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Bioengineering, Biomedical and Similarly Named Engineering Programs.
- The Chemical and Biomolecular Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Chemical, Biochemical, Biomolecular, and Similarly Named Engineering Programs.
- The Civil Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Civil and Similarly Named Engineering Programs.
- The Computer Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.
- The Electrical Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.
- The Environmental Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Environmental Engineering and Similarly Named Engineering Programs.
- The Industrial Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Industrial Engineering and Similarly Named Engineering Programs.
- The Materials Science and Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Materials, Metallurgical, Ceramics, and Similarly Named Engineering Programs.
- The Mechanical Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Mechanical Engineering and Similarly Named Engineering Programs.
- The Nuclear and Radiological Engineering (B.S.) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Nuclear, Radiological and Similarly Named Engineering Programs.

The Master of Science in Medical Physics and the PhD with a major in Nuclear Engineering - Medical Physics Option programs are accredited by the Commission on Accreditation of Medical Physics Educational Programs, CAMPEP, www.campep.org/campeplstgrad.asp.

- Aerospace Engineering. Minor, BS, MS, PhD
- Algorithms, Combinatorics, and Optimization. PhD
- Analytics. MS
- Applied Systems Engineering. PMASE
- Bioengineering. MS, PhD
- Bioinformatics. PhD
- Biomedical Engineering. Minor, BS, MS, PhD
- Biomedical Innovation and Development. MBID
- Chemical and Biomolecular Engineering. BS
- Chemical Engineering. MS, PhD
- Civil Engineering. BS, MS, PhD
- Computational Science and Engineering. MS, PhD
- Computer Engineering. BS, BS/MS
- Cybersecurity. MS
- Electrical Engineering. BS, BS/MS
- Electrical and Computer Engineering. MS, PhD
- Energy Systems. Minor
- Engineering and Business. Minor
- Engineering Science and Mechanics. MS, PhD
- Environmental Engineering. BS, MS, PhD
- Global Development. Minor
- Health Systems. MS
- Industrial Engineering. BS, MS, PhD
- Leadership Studies. Minor
- Machine Learning. PhD
- Manufacturing Leadership. PMML
- Materials Science and Engineering. Minor, BS, BS/MS, MS, PhD
- Mechanical Engineering. BS, MS, MS (undesignated), PhD
- Medical Physics. MS
- Nuclear Engineering. MS, PhD
- Nuclear and Radiological Engineering. Minor, BS
- Ocean Science and Engineering. PhD
- Operations Research. MS, PhD
- Quantitative and Computational Finance. MS
- Robotics. MS, PhD
- Statistics. MS

- Supply Chain Engineering. MS
- Sustainable Electrical Energy. PMSEE