Bachelor of Engineering

The Degree of Bachelor of Engineering (BE) is offered in the following nine programs. The areas of focus can be achieved by selecting appropriate elective courses.

Biomedical Engineering Program

Chemical Engineering Program*

Areas of Focus:
- Chemical Engineering
- Biochemical Engineering
- Materials Engineering

Civil Engineering Program*

Areas of Focus:
- Construction Management
- Water Resources Engineering
- Structural Engineering
- Environmental Engineering
- Ocean Engineering
- Geotechnical Engineering

Computer Engineering Program*

Areas of Focus:
- Computer Systems and Architectures
- Data Networks and Information Systems
- Software/Software Engineering
- Digital Systems

Electrical Engineering Program*

Areas of Focus:
- Telecommunications
- Data Networks
- Signal Processing
- Electronic Circuits

Engineering Program*

Concentrations:
- Biomedical Engineering
- Information Systems Engineering
- Naval Engineering

Engineering Management Program*

Areas of Focus:
- Information Systems Management
- Systems Engineering
Environmental Engineering Program*

Areas of Focus:
- Groundwater Pollution
- Environmental Hydrodynamics
- Biological and Physicochemical Processes

Mechanical Engineering Program*

Areas of Focus:
- Design and Manufacturing
- Energy Systems
- Machine Systems
- Robotics

* Note: The asterisk indicates programs which are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012 — Tel (410) 347-7700

Minors

- Biochemical Engineering
- Chemical Engineering
- Coastal Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Management
- Environmental Engineering
- Structural Engineering
- Water Resources

Master of Engineering

Chemical Engineering
- Chemical Engineering
- Polymer Engineering

Civil Engineering
- Geotechnical/Geoenvironmental Engineering
- Structural Engineering
- Water Resources Engineering
- Construction Management (Interdisciplinary)

Computer Engineering
- Computer Systems
- Data Communications and Networks
- Digital Systems Design
- Image Processing and Multimedia
- Software Engineering

Electrical Engineering
- Computer Architecture and Digital System Design
- Microelectronics and Photonics Science and Technology (Interdisciplinary)
- Signal Processing for Communications
- Telecommunications Engineering

Engineering Management
- Systems Engineering

Environmental Engineering
- Environmental Process
- Groundwater and Soil Pollution Control
— Inland and Coastal Environmental Hydrodynamics

**Integrated Product Development**
— Armament Engineering
— Electrical and Computer Engineering
— Manufacturing Technologies
— Systems Reliability and Design

**Materials Engineering**
— Microelectronics and Photonics Science and Technology (Interdisciplinary)

**Mechanical Engineering**
— Manufacturing Systems

**Networked Information Systems**
— Data Communication Networks
— Information Networks
— Multimedia Information Systems
— Multimedia Technologies
— Network Systems Technologies
— Networked Information Systems
— Networked Information Systems: Business Practices
— Secure Network Systems

**Ocean Engineering**
— Coastal Engineering
— Hydrodynamics
— Naval Architecture
— Oceanography

**Systems Engineering**
— Agile Systems Engineering
— Systems Design and Operational Effectiveness
— Systems Engineering and Architecturing Systems Supportability
— Engineering Value Chain Enterprise Systems

**Master of Science**

**Construction Management (Interdisciplinary)**

**Maritime Systems**
— Environmental Engineering
— Structural Engineering
— Management
— Marine Transportation

**Engineer**

Chemical Engineer
Civil Engineer
Computer Engineer
Electrical Engineer
Mechanical Engineer

**Doctor of Philosophy**

Chemical Engineering
Civil Engineering
Computer Engineering
Electrical Engineering
Engineering Management
Environmental Engineering
Materials Engineering
Mechanical Engineering
Ocean Engineering
Systems Engineering