The Charles V. Schaefer, Jr. School of Engineering

GEORGE P. KORFIATIS, DEAN
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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

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

Biomedical 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
- Engineered Software Systems
- Image Processing and Multimedia
- Information Systems Security
- Intelligent Systems

Electrical Engineering

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

Engineering Management

- Systems Engineering Management
 - Systems Engineering and Architecting
 - Value Chain Enterprise Systems
 - Project Managment

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

Product Architecture and Engineering

Systems Engineering

- Agile Systems Engineering and Design
- Systems Engineering Management
- Systems Engineering and Architecture
- Engineering Value Chain Enterprise Systems
 - System and Supportability Engineering

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

Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Electrical Engineering
Engineering Management

Environmental Engineering Materials Engineering Mechanical Engineering Ocean Engineering Systems Engineering