The Charles V. Schaefer, Jr. School of Engineering

GEORGE P. KORFIATIS, DEAN KEITH SHEPPARD, ASSOCIATE DEAN DINESH VERMA, ASSOCIATE DEAN SOURAN MANOOCHEHRI, ASSOCIATE DEAN

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 EngineeringElectrical 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 PracticesSecure 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