The Charles V. Schaefer, Jr.
School of Engineering

GEORGE P. KORFIATIS, DEAN
KEITH SHEPPARD, ASSOCIATE DEAN
DINESH VERMA, ASSOCIATE DEAN
SOURAN MANOOCHERI, 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*
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 Management Program*
Concentrations:
- Biomedical Engineering
- Information Systems Engineering
- Naval Engineering

School of Engineering
- List of Programs
  - Undergraduate Programs
  - Department of Chemical, Biomedical and Materials Engineering
  - Department of Civil, Environmental and Ocean Engineering
  - Department of Electrical and Computer Engineering
  - Department of Mechanical Engineering
  - Department of Systems Engineering and Engineering Management
  - CIESE (Center for Innovation in Engineering and Science Education)

School of Technology Management

Interdisciplinary Programs

ESL and Special Courses

Physical Education, Athletics and Recreation

Research Environment

Student Services

Financing Education

Student Life

Learning about the campus

Policies

Administrative Directory

Faculty Directory
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**

**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 Management

**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

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One Castle Point on Hudson  ●  Hoboken, NJ 07030  ●  800-458-5323