

Stevens Institute of Technology 2006-2007 Catalog

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 - 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)

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The Charles V. Schaefer, Jr. School of Engineering



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

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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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