The engineering programs are specially designed for transfer students, with attention given to their particular strengths and needs. Detailed transcript audits and individual advisers help each student prepare an efficient academic plan for the four semesters in the program. Classes are taught by experienced senior faculty.

MODERN FACILITIES. More than $4 million in new equipment and computer facilities supports the computer science and engineering programs.

INDIVIDUALIZED ACADEMIC ADVISING. Each undergraduate student has a faculty adviser who provides guidance on all aspects of the academic program. The department’s undergraduate director, the Watson School’s advising office professionals and peer advisers are additional sources for advice and assistance.

UNDERGRADUATE RESEARCH OPPORTUNITIES. Undergraduates may work side by side with graduate students and senior faculty in their research.

INDUSTRIAL CONNECTION. Strong links with some of the most technically advanced corporations in the nation translate into unique summer internship opportunities for students.

ENGINEERING SCHOLARSHIPS. Outstanding transfer students are included in the Watson Scholarship Program each year. There are no special application procedures for these awards; recipients are selected based on their academic record and additional information in their regular application file.

*Bioengineering Application Code: 1532 (see bioeng.binghamton.edu)
JUNIOR-LEVEL TRANSFER ADMISSION
For admission into junior-level engineering, you should have completed coursework in the subjects listed below, including the specific courses required for junior status in your particular Watson School major (see Major Notes). All transfer credits are awarded on a course-by-course basis. It is important to follow all guidelines as noted.
- Calculus I and II, differential equations and one other math (depending on major)
- Two semesters of calculus-based physics
- One course in college chemistry and one additional course in science/math
- Two courses in English composition or technical writing
- Two college courses in humanities/social science (see General Education Notes)
- First course in electrical circuits
- Introductory programming course

STUDENT ORGANIZATIONS
- Alpha Omega Epsilon (Engineering Sorority)
- Alpha Pi Mu (Industrial Engineering Honor Society)
- American Society of Mechanical Engineers (ASME)
- Association for Computing Machinery (ACM)
- Engineering in Medicine and Biology Society/Binghamton Bioengineers (EMBS)
- Engineers Without Borders
-Eta Kappa Nu (National Electrical Engineering Honor Society)
-Institute of Electrical and Electronics Engineers (IEEE)
-Institute of Industrial Engineers (IIIE)
-National Society of Black Engineers (NSBE)
-Pi Tau Sigma (National Mechanical Engineering Honor Society)
-Society of Automotive Engineers (SAE)
-Society of Hispanic Professional Engineers (SHPE)
-Society of Women Engineers (SWE)
-Tau Beta Pi (National Engineering Honor Society)
-Theta Tau (National Engineering Fraternity)
-Upson Pi Epsilon (Computer Science Honor Society)

ENGINEERING MAJORS FINAL TWO YEARS

COMPUTER ENGINEERING
Application Code: 0843

YEAR 3: FALL
- Signals and Systems
- Digital Systems Design
- Discrete Math
- EECE Seminar II

YEAR 4: FALL
- Senior Project I
- Technical Elective I
- General Ed Elective
- Operating Systems

INDUSTRIAL AND SYSTEMS ENGINEERING
Application Code: 1367

YEAR 3: FALL
- Enterprise Systems
- Probabilistic Systems II
- Industrial Automation
- Technical Elective

YEAR 4: FALL
- Modeling and Simulation
- Optimization and Operations Research
- Systems Design
- Free Elective

ELECTRICAL ENGINEERING
Application Code: 0266

YEAR 3: FALL
- Electronics I
- Signals and Systems
- Semiconductor Devices
- Multivariable Calculus
- EECE Seminar II

YEAR 4: FALL
- Senior Project I
- Technical Elective I
- General Ed Elective
- General Ed Elective

MECHANICAL ENGINEERING
Application Code: 0268

YEAR 3: FALL
- Computer-Aided Engineering
- Thermodynamics
- Materials Science
- Engineering Analysis
- Elective

YEAR 4: FALL
- Engineering Computational Methods
- Senior Project I
- Mechanical Vibrations
- Heat Transfer
- Technical Elective

MAJOR NOTES

Electrical or Computer Engineering
Select the following courses within your associate degree:
- Probability and statistics
- Data structures and algorithms
- Microprocessors
- Digital logic

Industrial and Systems Engineering
Select the following courses within your associate degree:
- Chemistry II
- Probability and statistics
- Engineering Statics
- Microeconomics

Mechanical Engineering
Select the following courses within your associate degree:
- Chemistry II
- Calculus III
- Mechanics (statics and dynamics)
- Strength of materials

GENERAL EDUCATION NOTES

Social science electives prior to junior-level transfer should cover one U.S. history, one world history or social science (preferably economics) to efficiently meet Binghamton University’s General Education requirements.

VISITING BINGHAMTON UNIVERSITY
Transfer students are welcome to join group information sessions and student-guided tours of the campus held on most weekdays and selected Saturdays during the academic year. These sessions cover general information about admissions, academic and campus life, housing and the surrounding community. Please phone at least one week in advance to be sure sessions will be scheduled for the day you choose to visit.

Admissions Office, Binghamton University
PO Box 6000
Binghamton, New York 13902-6000
607-777-2171
admit@binghamton.edu
www.binghamton.edu

For additional information:
Watson School Advising Office
607-777-6203
wtsnad@binghamton.edu
binghamton.edu/watsonschooladvising