

State University of New York at Binghamton
Thomas J. Watson School of Engineering and Applied Science
BS in Computer Engineering-Four-Year Program

Application Curriculum Code: 0843
 (If undecided use: 0229)

FALL 2012

ENGINEERING DESIGN DIVISION

(The freshman year is common to all engineering majors)

<u>Fall</u>	<u>Spring</u>
Math 221 Calculus I (M)	Math 222 Calculus II
Chem 111 Chemical Principles (L)	PHYS 131 General Physics I
WTSN 111 Exploring Engineering I (2 credits)	WTSN 112 Exploring Engineering II (J) (2 credits)
WTSN 103 Engineering Communications I (2 credits)	WTSN 104 Engineering Communications II (2 credits)
General Education Elective (P)	General Education Elective (G)
Body/Wellness	Body/Wellness

Final three years of Computer Engineering Major

Year 2

<u>Fall</u>	<u>Spring</u>
Math 371 Ordinary Differential Equation	ISE 261 Probabilistic Systems I
Phys 132 General Physics II	EECE 260 Electrical Circuits
CS 211 Programming I for Engineers	CS 212 Programming II for Engineers
EECE 251 Digital Logic Design	EECE 252 Computer Organization & Microprocessors
EECE 281 EECE Seminar I	

Year 3

<u>Fall</u>	<u>Spring</u>
EECE 301 Signals and Systems	EECE 352 Computer Architecture
EECE 315 Electronics I	EECE 387 Design Lab
EECE 351 Digital System Design	EECE 359 Computer Networks
Math 314 Discrete Math	General Education Elective (H)
EECE 382 EECE Seminar II	

Year 4

<u>Fall</u>	<u>Spring</u>
EECE 487 Senior Project I (J)	EECE 488 Senior Project II
CS 311 Operating Systems Concepts	Technical Elective II
Technical Elective I	General Education Elective (N)
General Education Elective (A)	Professional Elective I

Computer Engineering

Computer Engineering (CoE) is one of the core engineering disciplines. The roots of computer engineering lie in electrical engineering and are enriched by computer science. A computer engineer analyzes and designs electronic circuits and components, microprocessors and software, and integrates hardware and software into larger systems. In addition, a computer engineer may also work in information technology and be involved in a multi disciplinary team.

The Watson School's BSCoE program is accredited by The Engineering Accreditation Commission of ABET, <http://www.abet.org>, the recognized accreditor for college and university programs in applied science, computing, engineering and technology. The program provides a balance between hardware and software and between theory and application. It prepares graduates for a dynamic career in computer engineering by providing you the skills and knowledge for success. A large number of laboratory-based courses in the curriculum provide hands-on learning opportunities. The faculty are dedicated to providing the environment and opportunities required for you to succeed.

Our curriculum is excellent preparation for graduate studies. For qualified undergraduates, we offer an accelerated five-year program that leads to both a BS and an MS degree in computer engineering or a BS in computer engineering and a master of business administration.

For more information on the Web,
visit <http://www.ece.binghamton.edu>.