

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

Application curriculum code: 0266
 (If undecided: 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 Electrical 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>
Math 323 Calculus III	EECE 387 EECE Design Lab
EECE 315 Electronics I	EECE 323 Electromagnetics
EECE 301 Signals and Systems	EECE 361 Control Systems
EECE 332 Semiconductor Devices	EECE 377 Communication Systems
EECE 382 EECE Seminar II	Professional Elective I

Year 4

<u>Fall</u>	<u>Spring</u>
EECE 487 Senior Project I (J)	EECE 488 Senior Project II
Technical Elective I	Technical Elective II
General Education Elective (A)	Professional Elective II
General Education Elective (H)	General Education Elective (N)

Electrical Engineering

Electrical Engineering, one of the broadest engineering disciplines, is the branch of engineering that focuses on designing components and systems that utilize electrons and photons. Electrical engineers design wireless and fiber optic telecommunication systems. Both large corporations and small companies hire electrical engineer graduates.

The Watson School's BSEE 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. Our program covers all areas of electrical engineering and provides a balance between theory and practical application. It prepares graduates for a dynamic career in electrical engineering by providing them with the skills and knowledge for success. The faculty in our department are dedicated to providing the environment and opportunities students need.

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 electrical engineering or a BS in electrical engineering and a master of business administration.

For more information on the Web, visit:

<http://www.ece.binghamton.edu>.