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 2010**

**ENGINEERING DESIGN DIVISION**  
*(The freshman year is common to all engineering majors)*

**Fall**
- Math 221  Calculus I (M)  
- Chem 111  Chemical Principles (L)  
- WTSN 111  Exploring Engineering I (2 credits)  
- WTSN 103  Engineering Communications I (2 credits)  
- General Education Elective (P)  
- Body/Wellness  

**Spring**
- Math 222  Calculus II  
- PHYS 131  General Physics I  
- WTSN 112  Exploring Engineering II (J) (2 credits)  
- WTSN 104  Engineering Communications II (2 credits)  
- General Education Elective (G)  
- Body/Wellness  

**Final three years of Electrical Engineering Major**

**Year 2**

**Fall**
- Math 371  Ordinary Differential Equation  
- Phys 132  General Physics II  
- CS 211  Programming I for Engineers  
- EECE 251  Digital Logic Design  
- EECE 281  EECE Seminar I  

**Spring**
- ISE 261  Probabilistic Systems I  
- EECE 260  Electrical Circuits  
- CS 212  Programming II for Engineers  
- EECE 252  Computer Organization & Microprocessors  

**Year 3**

**Fall**
- Math 323  Calculus III  
- EECE 315  Electronics I  
- EECE 301  Signals and Systems  
- EECE 332  Semiconductor Devices  
- EECE 382  EECE Seminar II  

**Spring**
- EECE 387  EECE Design Lab  
- EECE 323  Electromagnetics  
- EECE 361  Control Systems  
- EECE 377  Communication Systems  
- Professional Elective I  

**Year 4**

**Fall**
- EECE 487  Senior Project I (J)  
- Technical Elective I  
- General Education Elective (A)  
- General Education Elective (H)  

**Spring**
- EECE 488  Senior Project II  
- Technical Elective II  
- Professional Elective II  
- General Education Elective (N)  

6/3/2010
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 ABET, 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. A five-year program offering a BS in electrical engineering and a master of business administration will start in 2003.

For more information on the Web, visit: