

**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 2014**

**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     Intro to Engineering Design (2 credits)  
WTSN 103     Engineering Communications I  
                  (2 credits)  
General Education Elective (G, P, A, N, H)  
Body/Wellness (Y, S, B)

**Spring**

Math 222     Calculus II  
PHYS 131     General Physics I  
WTSN 112     Intro to Engineering Analysis (2 credits)  
WTSN 104     Engineering Communications II  
                  (J) (2 credits)  
General Education Elective (G, P, A, N, H)  
Body/Wellness (Y, S, B)

**Final three years of Electrical Engineering Major**

**Year 2**

**Fall**

Math 324     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     Electric Circuits  
CS 212        Programming II for Engineers  
EECE 252     Computer Org & 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     Design Lab  
EECE 323     Electromagnetics  
EECE 361     Control Systems  
EECE 377     Communications Systems  
Professional Elective I

**Year 4**

**Fall**

EECE 487     Senior Project I (O)  
Technical Elective I  
General Education Elective (G, P, A, N, H)  
General Education Elective (G, P, A, N, H)

**Spring**

EECE 488     Senior Project II  
Technical Elective II  
Professional Elective II  
General Education Elective (G, P, A, N, H)

## 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 Bachelor of Science program in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>. 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>.

4/18/13