FALL 2020
ENGINEERING DESIGN DIVISION
(The freshman year is common to all engineering majors)

**Fall**
- Math 224/225  Diff Calc/Integ Calc (M)
- Chem 111  Chemical Principles (L)
- EDD 111  Intro to Engineering Design (2 credits)
- EDD 103  Engineering Communications I (2 credits)
- General Education Elective (G, P, A, N, H)
- Physical Activity/Wellness (Y, S, B)

**Spring**
- Math 226/227  IntegTech & App/Inf Ser (Calc I)
- PHYS 131  General Physics I
- EDD 112  Intro to Engineering Analysis (2 credits)
- EDD 104  Engineering Communications II (J) (2 credits)
- General Education Elective (G, P, A, N, H)
- Physical Activity/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
- EECE 212  Linear Algebra&Eng Programming
- EECE 287  Sophomore Design

**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)
- EECE 486  Senior Project I Lab
- 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
- EECE 489  Senior Project II Lab
- 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 design, analysis and application of electrical and electronic components, circuits, and systems. Electrical Engineers work in the areas of communication systems, and medical imaging systems and sensors, while others are focused on power and energy, such as power transmission and design of electric drives. 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, [https://www.abet.org](https://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:  
[https://www.binghamton.edu/electrical-computer-engineering/](https://www.binghamton.edu/electrical-computer-engineering/)

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