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

Application curriculum code: 0266 (If undecided: 0229)

<u>FALL 2019</u> <u>ENGINEERING DESIGN DIVISION</u> (The freshman year is common to all engineering majors)

Fall

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Math 224/225 Diff Calc/Integ Calc (M)		Math 226/227 IntegTech & App/Inf Ser (Calc I)	
Chem 111	Chemical Principles (L)	PHYS 131	General Physics I
EDD 111	Intro to Engineering Design (2 credits)	EDD 112	Intro to Engineering Analysis (2 credits)
EDD 103	Engineering Communications I	EDD 104	Engineering Communications II
	(2 credits)		(J) (2 credits)
General Education Elective (G, P, A, N, H)		General Education Elective (G, P, A, N, H)	
Body/Wellness (Y, S, B)		Body/Wellness (Y, S, B)	
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Final three years of Electrical Engineering Major

<u>Year 2</u>

	Fall	1	Spring
Math 324	Ordinary Differential Equation	ISE 261	Probabilistic Systems I
PHYS 132	General Physics II	EECE 260	Electric Circuits
CS 211	Programming I for Engineers	EECE 212	Linear Algebra&Eng Programming
EECE 251	Digital Logic Design	EECE 287	Sophomore Design
EECE 281	EECE Seminar I		

Year 3

FallMath 323Calculus IIIEECE 315Electronics IEECE 301Signals and SystemsEECE 332Semiconductor DevicesEECE 382EECE Seminar II

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)

SpringEECE 387Design LabEECE 323ElectromagneticsEECE 361Control SystemsEECE 377Communications SystemsProfessional Elective I

<u>Year 4</u>

<u>Spring</u>

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 Bachelor of Science program in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org. Our program covers all areas of electrical engineering and provides a balance application. It prepares graduates for a between theory and practical dynamic career in electrical engineering by providing them with the skills and knowledge for success. The faculty in department our 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/

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