State University of New York at Binghamton

Thomas J. Watson College of Engineering and Applied Science

BS in Electrical Engineering-Four-Year Program

Application curriculum code: 0266 (If undecided: 0229)

FALL 2020

ENGINEERING DESIGN DIVISION

(The freshman year is common to all engineering majors)

		<u>r an</u>		<u>Spring</u>
	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)	
Physical Activity/Wellness (Y, S, B)			Physical Activity/Wellness (Y, S, B)	

Final three years of Electrical Engineering Major

Year 2

	<u>Fall</u>	<u>Spring</u>		
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

	<u>Fall</u>	1	<u>Spring</u>
Math 323	Calculus III	EECE 387	Design Lab
EECE 315	Electronics I	EECE 323	Electromagnetics
EECE 301	Signals and Systems	EECE 361	Control Systems
EECE 332	Semiconductor Devices	EECE 377	Communications Systems
EECE 382	EECE Seminar II	Professional Elective I	

Year 4

	<u>Faii</u>	<u>Spring</u>		
EECE 487	Senior Project I (O)	EECE 488	Senior Project II	
EECE 486	Senior Project I Lab	EECE 489	Senior Project II Lab	
Technical Ele	ective I	Technical Elective II		
General Educ	eation Elective (G, P, A, N, H)	Professional Elective II		
General Educ	eation Elective (G, P, A, N, H)	General Education Elective (G, P, A, N, H)		

T7 - 11

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 ABET, Engineering Accreditation Commission https://www.abet.org. of 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. faculty The in our department 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/

04/08/20