State University of New York at Binghamton

Thomas J. Watson College of Engineering and Applied Science

BS in Computer Engineering-Four-Year Program

Application Curriculum Code: 0843 (If undecided use: 0229)

FALL 2020

ENGINEERING DESIGN DIVISION

(The freshman year is common to all engineering majors)

	<u>Fall</u>		Spring
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
EDD 103	Engineering Communications I	credits)	
	(2 credits)	EDD 104	Engineering Communications II
General Education Elective (G, P, A, N, H)			(J) (2 credits)
Physical Activity/Wellness (Y, S, B)		General Education Elective (G, P, A, N, H)	
		Physical Activity/Wellness (Y, S, B)	

Final three years of Computer Engineering Major

Year 2

	<u>Fall</u>		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	
	Fall	I	Spring

Spring	
EECE 387 Design Lab	
EECE 359 Computer Comm and	Networking
CS 212 Programming II for E	Engineers
General Education Elective (G, P, A, 1	N, H)
	EECE 387 Design Lab EECE 359 Computer Comm and CS 212 Programming II for E

Year 4

<u>Spring</u>	
Senior Project II	
Senior Project II Lab	
Technical Elective II	
General Education Elective (G, P, A, N, H)	
Professional Elective I	

Computer Engineering

Computer Engineering (CoE) is one of the core engineering disciplines. The roots of computer engineering lie in electrical engineering and are enriched by computer science. A computer engineer analyzes and designs electronic circuits and components, microprocessors and software, and integrates hardware and software into larger systems. Computer engineers work in many industries, including aerospace, automotive, computer, defense, electronics, information technology, networking and telecommunications.

The ofScience Engineering Bachelor program in Computer accredited by the Engineering Accreditation Commission of https://www.abet.org. The program provides a balance between hardware and software and between theory and application. It prepares graduates for a dynamic career in computer engineering by providing you the skills and knowledge for success. A large number of laboratory-based courses opportunities. curriculum provide hands-on learning dedicated providing the environment and opportunities required are for you to succeed.

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 computer engineering or a BS in computer 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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