State University of New York at Binghamton Thomas J. Watson School of Engineering and Applied Science **BS in Computer Engineering-Four-Year Program**

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

FALL 2019

ENGINEERING DESIGN DIVISION

(The freshman year is common to all engineering majors)

Fall

Spring

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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
EDD 103	Engineering Communications I	credits)	
	(2 credits)	EDD 104	Engineering Communications II
General Education Elective (G, P, A, N, H)			(J) (2 credits)
Body/Wellness (Y, S, B)		General Education Elective (G, P, A, N, H)	
		Body/Wellness (Y, S, B)	

Final three years of Computer Engineering Major

<u>Year 2</u>					
	<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				

Fall Signals and Systems **EECE 301 EECE 315** Electronics I Digital Systems Design **EECE 351** Math 314 Discrete Math **EECE 382 EECE Seminar II**

<u>Spring</u>
Design Lab
Computer Comm and Networking
Programming II for Engineers
tion Elective (G, P, A, N, H)

Fall

EECE 487 Senior Project I (O) Senior Project I Lab **EECE 486** CS 311 **Operating Systems Concepts Technical Elective I** General Education Elective (G, P, A, N, H)

Year 4

Spring EECE 488 Senior Project II **EECE 489** 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, automobile, computer, defense, electronics, information technology, networking, and telecommunications.

The Bachelor of Science in Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET. 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 in the curriculum provide hands-on learning opportunities. The faculty are dedicated to providing the environment and opportunities required 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/

04/08/19