

BERGEN COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
		2019	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science Electrical and Computer Engineering</i>	
Course	Credit	Course	Credit
First Semester (17 credits)			
MAT-280 Calculus I	4	MATH 170 Calculus I	4
PHY-280 Physics I	4	PHYS 170 General Physics I	4
CHM-140 General Chemistry I	3	CHEM 107 Engineering Chemistry I	4
CHM-141 General Chemistry - Lab	1		
DFT-107 Drafting I	2	-	-
WRT-101 English Composition	3	FCWR 101 Writing I	3
Second Semester (18 credits)			
PHY-290 Physics II	4	PHYS 180 General Physics II	4
MAT-281 Calculus II	4	MATH 180 Calculus II	4
CIS-270 Programming for Science Applications	3	CSCI 125 Computer Programming I	3
CHM-240 General Chemistry II	3	FCSC 101 Foundations Scientific Process and	3
CHM-241 General Chemistry II – Lab	1	Liberal Arts Elective (1 credit)	1
WRT-201 English Composition II	3	FCWR 151 Writing II	3
Third Semester (17 credits)			
PHY-291 Physics III	4	PHYS 225 Introduction to Modern Physics and	3
		Liberal Arts Elective (1 credit)	1
MAT-282 Calculus III	4	MATH 260 Calculus III	4
COM-100 Speech Comm <i>or</i> COM-102 Public Speak	3	FCSP 105 Foundations of Public Speaking	3
Humanities: Restricted to Phil and Religion (PHR)	3	Philosophy Equivalent	3
Social Science Elective: Restricted to Psychology (PSY), <i>or</i> Sociology (SOC), <i>or</i> Anthropology (ANT)	3	Behavioral Science Equivalent	3
Fourth Semester (14 credits)			
PHY-294 Engineering Mechanics	4	MENG 211 Engineering Mechanics I	3
MAT-283 Differential Equations	4	MATH 320 Differential Equations and	3
		Liberal Arts Elective (1 credit)	1
Humanities Elective: Restricted to Literature (LIT)	3	Literature Equivalent	3
Free Elective: Restricted to History (HIS)	3	FCIQ 101 Foundations of Inquiry*	3
TOTAL	66	TOTAL	63

*Transfer substitution awarded on the basis of this agreement



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College of Engineering and Computing Sciences, NYIT

9/24/19

Date

Program of Study at New York Institute of Technology

Bachelor of Science in Electrical and Computer Engineering

Courses to be completed at NYIT:

<u>Major courses:</u>		<u>Credits</u>
EENG 125	Fundamentals of Digital Logic	3
EENG 212	Electrical Circuits I and Eng Tools	4
EENG 270	Introduction to Electronic Circuits	3
EENG 275	Electronics Laboratory I	1
EENG 281	Electrical Circuits II	3
EENG 310	Electronic Circuit Applications	3
EENG 315	Electronics Laboratory II	1
EENG 320	Control Systems	3
EENG 330	Electromagnetic Theory I	3
EENG 341	Signals and Systems	3
EENG 360	Electronics Laboratory III	1
EENG 371	Microprocessors and Embedded Systems	3
EENG 382	Random Signals and Statistics	3
EENG 401	Communication Theory	3
EENG 403	Electronics Laboratory IV	1
EENG 489	Design Project	2
EENG 491	Senior Design Project	2
EENG/CSCI	EENG/CSCI Elective	3
<u>Computer Science:</u>		
CSCI 155	Computer Organization & Architecture	3
CSCI 185	Computer Programming II	3
CSCI 235	Elements of Discrete Structures	3
CSCI 260	Data Structures	3
CSCI 330	Operating Systems	3
<u>Core and additional requirements:</u>		
MATH 310	Linear Algebra	3
FCWR 304	Comm for Technical Professions	3
ICSS 309	Technology and Global Issues	3
Total credits at New York Institute of Technology		<u>69</u>