

Suffolk County
COMMUNITY
COLLEGE

NEW YORK INSTITUTE
OF TECHNOLOGY

Associate in Science
Engineering Science

Bachelor of Science
Electrical and Computer
Engineering

2022-2023

Course	Credit	Course	Credit
First Semester:			
COL 101: Freshman Seminar	1		-
CHE 133: College Chemistry I	4	CHEM 107 Engineering Chemistry	4
ENG 101: Standard Freshman Composition	3	FCWR101 Writing I	3
ENS 112: Introduction to Engineering Design	2	ETCS-105	2
MAT 141: Calculus with Analytic Geometry I	4	MATH 170 Calculus I	4
Physical Education	1		-
Second Semester:			
ENG 102: Introduction to Literature	3	FCWR 151 Writing II	3
ENS 117: Engineering Computations	3	CSCI-125 Programming I	3
CHE 134: College Chemistry II	4		-
MAT 142: Calculus with Analytic Geometry II	4	MATH 180 Calculus II	4
PHY 130: Physics I (3) PHY 132: Physics I Lab (1)	4	PHYS 170 General Physics I	4
Third Semester:			
DRF 114: Auto CAD I	3		-
ENS 118: Engineering Mechanics: Statics	3	MENG 211 Engineering Mechanics I	3
ENS 233: Electrical Engineering Circuit Analysis	4	EENG 211 Electrical Circuits I EENG 275 Electronics Laboratory	4
MAT 204: Differential Equations	4	MATH 320 Differential Equations	3
PHY 230: Physics II (3) PHY 232: Physics II Lab (I)	4	PHYS 180 General Physics II	4
Fourth Semester:			
ENG 119: Engineering Mechanics Dynamics or Engineering Elective	3	STEM Elective	3
HIS 101: Western Civ I or HIS 102: Western Civ II	3	Liberal Arts Elective	3
MAT 203: Calculus with Analytical Geometry III	4	MATH 260 Calculus III	4
PHY 245: Physics III (3) PHY 246: Physics III Lab (I)	4	PHYS-225 Intro to Modern Physics	3
Social Science Elective Recommended: Psychology or Sociology	3	ICBS-3xx Behavioral Science Seminar	3
TOTAL	68	TOTAL	57

NEW YORK INSTITUTE OF TECHNOLOGY

The following are courses necessary to complete the New York Tech BS in Electrical and Computer Engineering, after transferring from Suffolk CCC with a completed AS in Engineering Science. Please see preceding page for course-by-course transfer information.

NYIT Course	Credit
Electrical Engineering	
EENG 125 Fundamentals of Digital Logic	3
EENG 221 Computational & Engineering Tools	1
EENG 270 Introduction to Electronic Circuits	3
EENG 281 Electric 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 & 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 Electives	6
Computer Science	
CSCI 155 Computer Organization and 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
Foundation Courses	
FCSP 105 Foundations of Speech Communication	3
FCWR 304 Communication for Technical Professions	3
Mathematics	
MATH 310 Linear Algebra	3
Seminars	
ICLT Literature Seminar	3
ICPH Philosophy Seminar	3
ICSS 309 Technology and Global Issues	3
TOTAL	77



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12/24/2022

Date