

SUFFOLK COUNTY COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science Electrical and Computer Engineering</i>	
Course	Credit	Course	Credit
First Semester: 15 credits			
COL101: College Seminar	1	Liberal Arts Elective	1
CHE 133: College Chemistry I	4	CHEM 107 Engineering Chemistry I	4
ENG 101: Standard Freshman Composition	3	FCWR101 Writing I	3
ENS112: Introduction to Engineering Design	2	-	-
MAT 141: Calculus with Analytic Geometry I	4	MATH 170 Calculus I	4
Physical Education	1	-	
Second Semester: 18 credits			
ENG 102: Introduction to Literature	3	FCWR 151 Writing II	3
ENS 117: Engineering Computations	3	CSCI 125 Computer Programming I	3
CHE 134: College Chemistry II	4	FCSC 101 Foundations of Scientific Process + 1 Liberal Arts Elective credit	4
MAT 142: Calculus with Analytic Geometry II	4	MATH 180 Calculus II	4
PHY 130: Physics I (3)	4	PHYS 170 General Physics I	4
PHY 132: Physics I Lab (1)			
Third Semester: 18 credits			
DRF 114: AutoCAD I	3	-	-
ENS 118: Engineering Mechanics: Statics	3	MENG 211 Engineering Mechanics I (Statics)	3
ENS233: Electrical Engineering Circuit Analysis	4	EENG 211 Electrical Circuits I (3) and EENG 275 Electronics Laboratory	4
MAT 204: Differential Equations	4	MATH 320 Differential Equations + Liberal Arts Elective (I)	4
PHY230: Physics II (3)	4	PHYS 180 General Physics II	4
PHY232: Physics II Lab (I)			
Fourth Semester: 17 credits			
ENG119: Engineering Mechanics Dynamics <i>or Engineering Elective</i>	3	-	-
HIS 101: Western Civ I or HIS 102: Western Civ II	3	FCIQ 101 Foundations of Inquiry*	3
MAT203: Calculus with Analytical Geometry III	4	MATH 260 Calculus III	4
PHY245: Physics III (3)	4	PHYS 225 Introduction to Modern Physics	3
PHY246: Physics III Lab (I)			
Social Science Elective <i>Recommended: Psychology or Sociology</i>	3	Behavioral Science Equivalent	3
TOTAL	68	TOTAL	58

*Transfer substitution awarded on the basis of this agreement.

Program of Study at New York Institute of Technology:
Bachelor of Science in Electrical and Computer Engineering

Courses to be completed at NYIT:

Major Courses:		Credits
EENG 125	Fundamentals of Digital Logic	3
EENG 221	Computational and Engineering Tools	1
EENG 270	Introduction to Electronic Circuits	3
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	Microprocess & 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		3
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
Core and additional requirements:		
MATH 310	Linear Algebra	3
FCSP 105	Foundations of Speech Communication	3
FCWR 304	Comm for Technical Professions	3
ICLT 3XX	Literature Seminar	3
ICPH 3XX	Philosophy Seminar	3
ICSS 309	Technology and Global Issues	3
Total credits at New York Institute of Technology:		<u>74</u>



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