

# NASSAU COMMUNITY COLLEGE

# NEW YORK INSTITUTE OF TECHNOLOGY

*Associate in Science  
Engineering Science*

*Bachelor of Science  
Electrical and Computer Engineering*

2017

Course	Credit	Course	Credit
<b>First Semester:</b>			
CHE 151 Inorganic Chemistry I	4	CHEM 107 Engineering Chemistry	4
ENG 100 Enhanced Composition I <i>or</i> ENG 101 Composition I <i>or</i> ENG 108 The Craft of Composition	3	FCWR 101 Writing I	3
ENS 101 Graphics	1	-	-
ENS 103 Elementary Engineering I	1	*	-
MAT 122 Calculus I	4	MATH 170 Calculus I	4
NCC The College Experience	1	-	
PED Activity Course(s)	1		
<b>Second Semester:</b>			
ECO 208 Principles of Microeconomics	3	Liberal Arts Elective	3
ENS 104 Computational Methods Engineering	2	CSCI 125 Computer Programming I*	3
ENG 102 Composition II <i>or</i> ENG 109 The Art of Analysis	3	FCWR 151 Writing II	3
MAT 123 Calculus II	4	MATH 180 Calculus II	4
PHY 122 Engineering Physics I	4	PHYS 170 General Physics I	4
PED Activity Course	1	-	-
<b>Third Semester:</b>			
ENS 205 Statics	3	MENG 211 Engineering Mechanics I (Statics)	3
ENS 225 Circuit Analysis I	4	EENG 211 Electrical Circuits I EENG 275 Electronics Laboratory	3 1
MAT 225 Multivariable Calculus	4	MATH 260 Calculus III	4
PHY 123 Engineering Physics II	4	FCSC 101 Foundations of Scientific Process	3
General Elective <i>Recommended: Psychology or Sociology</i>	3	ICBS Behavioral Science Elective	3
<b>Fourth Semester:</b>			
ENS 206 Dynamics	3	-	-
ENS 226 Engineering Circuit Analysis II	4	EENG 281 Electrical Circuits II	3
ENS 230 Engineering Thermodynamics	3	-	-
MAT 234 Elementary Differential Equations	3	MATH 320 Differential Equations	3
Technical Elective <i>Recommended: PHY 222 Electricity and Magnetism</i>	3-4	PHYS 180 General Physics II	4
<b>TOTAL</b>	<b>66-67</b>	<b>TOTAL</b>	<b>55</b>

\*Both ENS 103 and ENS 104 must be satisfactorily completed in order to grant credit for CSCI 125

## PLAN OF STUDY

Approved by Dr. Nada Anid, Dean  
School of Engineering and Computing Sciences, NYIT

- *Effective as of 2017*

# NEW YORK INSTITUTE OF TECHNOLOGY

*The following are courses necessary to complete the NYIT BS in Electrical and Computer Engineering after transferring from Nassau CC with a completed AS in Engineering Science. Please see preceding page for course-by-course transfer information.*

NYIT Course	Credit
<b>Electrical Engineering</b>	
EENG 125 Fundamentals of Digital Logic	3
EENG 221 Computational & Engineering Tools	1
EENG 270 Introduction to Electronic Circuits	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
<b>Computer Science</b>	
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
<b>Foundation Courses</b>	
FCIQ 101 Foundations of Inquiry	3
FCSP 105 Foundations of Speech Communication	3
FCWR 304 Communication for Technical Professions	3
<b>Mathematics and Physics</b>	
MATH 310 Linear Algebra	3
PHYS 225 Intro to Modern Physics	3
<b>Seminars</b>	
ICLT Literature Seminar	3
ICPH Philosophy Seminar	3
ICSS 309 Technology and Global Issues	3
<b>TOTAL</b>	<b>77</b>