

DUTCHESS COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
		2017	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science in Electrical and Computer Engineering</i>	
Course	Credit	Course	Credit
First Semester: (15)			
ENG 101 Composition I	3	FCWR 101 Writing I	3
CHE 121 General Chemistry I	4	CHEM 107 Engineering Chemistry I	4
MAT 221 Calculus I	4	MATH 170 Calculus I	4
ENR 101 Introduction to Engineering	2	-	-
ENR 100 Engineering Technology Intro Seminar	1	Liberal Arts Elective (1)	1
ENT 131 Technical Drawing	1	MENG 105 Engineering Graphics	1
Second Semester: (17)			
ENG 102 Composition II	3	FCWR 151 Writing II	3
WFE 101 Lifetime Wellness and Fitness	3	-	-
PHY 151 Engineering Physics I	4	PHYS 170 General Physics I	4
MAT 222 Calculus II	4	MATH 180 Calculus II	4
ENR 102 Computer Programming for Engineers	3	CSCI 125 Computer Programming I	3
Third Semester: (18)			
PHY 152 Engineering Physics II	4	PHYS 180 General Physics II	4
MAT 223 Calculus III	4	MATH 260 Calculus III	4
ENR 208 Engineering Statics	3	MENG 211 Engineering Mechanics I (Statics)	3
Technical Elective (3-4)		EENG 211 Electrical Circuits I**	3
<i>Restricted to ENR 201 Intro Electrical Circuits & Net</i>	4	EENG 275 Electronics Laboratory I	1
BHS 103 Social Problems in Today's World	3	ICBS Behavioral Science Seminar	3
Fourth Semester: (17)			
PHY 251 Engineering Physics III	4	PHYS 225 Introduction to Modern Physics <i>and</i> Liberal Arts Elective (1)	3 1
MAT 224 Differential Equations	4	MATH 320 Differential Equations <i>and</i> Liberal Arts Elective (1)	3 1
American History (Appendix D)	3	FCIQ 101 Foundations of Inquiry*	3
Advanced Technical Electives (6-8)			
<i>Restricted to ENR 220 Digital Circuit Design (3)</i>	3	EENG 125 Fundamentals of Digital Logic	3
<i>Restricted to MAT 214 Discrete Mathematics (3)</i>	3	CSCI 235 Elements of Discrete Structures	3
TOTAL	67	TOTAL	62

*Transfer substitution awarded on the basis of this agreement.

**EENG 221 *Computational and Engineering Tools* (1) required to complete EENG 212 requirement

PLAN OF STUDY

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

- *Effective as of 2017*

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 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 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
Electrical Engineering/Computer Science Electives	3
CSCI 155 Computer Organization and Architecture	3
CSCI 185 Computer Programming II	3
CSCI 260 Data Structures	3
CSCI 330 Operating Systems	3
<u>Core and additional requirements</u>	
MATH 310 Linear Algebra	3
FCSP 105 Foundations of Speech Communication	3
FCSC 101 Foundations of Scientific Process	3
FCWR 304 Communication 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>71</u>