

<b>BERGEN COMMUNITY COLLEGE</b>		<b>NEW YORK INSTITUTE OF TECHNOLOGY</b>	
<i>Associate in Applied Science Electronics Technology</i>		<i>Bachelor of Science in Electrical and Computer Engineering Technology</i>	
		<b>2019</b>	
Course	Credit	Course	Credit
<b>First Semester (16 credits)</b>			
ELC-100 Introduction to Electronics Technology	2	-	-
ELC-101 DC-Circuit Analysis	4	ETEC 110 Electrical Technology I	4
PHY-185 Introduction to Physics	4	PHYS 130 Introductory Physics + 1 Liberal Arts Elective credit	4
WRT-101 English Composition I	3	FCWR 101 Writing I	3
DFT-107 Drafting I	3	-	-
<b>Second Semester (15 credits)</b>			
ELC-201 AC-Circuit Analysis	4	ETEC 120 Electrical Technology II	4
ELC-203 Electronics I	4	ETEC 131 Electronics Technology I	4
CHM-102 Chemistry in Context <i>or</i> CHM-100 Introduction to Chemistry	4	FCSC 101 Scientific Process* + 1 Liberal Arts Elective credit	4
Free Elective – <i>Recommended:</i> MAT-160 Intermediate Algebra (4)	3	MATH 135 Fundamentals of Precalculus I	4
<b>Third Semester (14 credits)</b>			
ELC-204 Electronics II	4	ETEC 231 Electronics Technology II	4
ELC-214 Communication Systems I	4	ETEC 310 Communication Circuits	4
MFG-122 Machine Tool Principles I	3	ETEC 490 Special Topics	3
WRT-202 Technical Writing	3	FCWR 151 Writing II	3
<b>Fourth Semester (15 credits)</b>			
Humanities Elective – <i>Recommended:</i> HIS History <i>or</i> PHR Philosophy and Religion	3	FCIQ 101 Foundations of Inquiry*	3
Social Science Elective – <i>Recommended:</i> PSY Psychology <i>or</i> SOC Sociology <i>or</i> ANT Anthropology	3	ICBS Behavioral Science Seminar*	3
MFG-124 Applied Metrology	3	-	-
Elective Choice: 1) MFG-206 Concepts of Industrial Design <i>or</i> 2) TEC-180 Problem Solving using Technology (4)	3-4	Course Equivalent: 1) ETEC 491 Special Topics II 2) CTEC 247 Applied Computational Analysis II	3
Free Elective – <i>Recommended:</i> MAT-180 Precalculus (4)	3	MATH 136 Fundamentals of Precalculus II	4
<b>TOTAL</b>	<b>60-61</b>	<b>TOTAL</b>	<b>54</b>

\*Transfer substitution awarded on the basis of this agreement.  
Note – Recommended courses are identified to maximize transfer credit award to NYIT.  
Fewer credits may transfer if “Recommended” courses are not completed.

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

Courses to be completed at NYIT:

<u>Major courses:</u>		<u>Credits</u>
ETEC 325	Applied Statistics	3
ETEC 410	Control Systems Technology	4
ETEC 495	Electrical Engineer Tech Senior Design <i>or</i>	
CTEC 495	Computer Technology Seminar Project	3
CTEC 204	Programming Techniques I	3
CTEC 208	Programming Techniques II	3
CTEC 216	Digital Electronics	4
CTEC 235	Microcomputers I	4
CTEC 241	Circuit Design and Fabrication	4
CTEC 243	Applied Computational Analysis I	3
CTEC 247	Applied Computational Analysis II <i>or</i> ETEC/CTEC Elective <sup>^</sup>	3
CTEC 336	Embedded Systems and IoT	4
CTEC 350	Microcontroller Based Systems	3
IENG 240	Engineering Economics	3
IENG 251	Project Engineering	3
Electrical and Computer Technology Elective		3

Core and additional requirements:

MATH 161	Basic Applied Calculus	3
PHYS 150	Introductory Physics II	3
FCSP 105	Foundations of Speech Communication	3
FCWR 304	Communication for Technical Professions	3
ICLT 3XX	ICLT Literature Seminar	3
ICPH 3XX	ICPH Philosophy Seminar	3
ICSS 309	Technology and Global Issues	3
Liberal Arts or Science Electives		<u>4</u>

Total credits at New York Institute of Technology: 75

<sup>^</sup>Requirement determined by courses completed at Bergen CC



Dr. Babak Dastgheib-Beheshti, Dean  
 College of Engineering & Computing Sciences, NYIT

9/24/19

Date

▪ *Effective Fall 2019*