

<b>DUTCHESS COMMUNITY COLLEGE</b>		<b>NEW YORK INSTITUTE OF TECHNOLOGY</b>	
<i>Associate in Applied Science Electrical Technology (ELT)</i>		<i>Bachelor of Science in Electrical and Computer Engineering Technology</i>	
		<b>2019</b>	
Course	Credit	Course	Credit
<b>First Semester (15 credits)</b>			
Math— <i>Recommended</i> MAT 184: Algebra/Trig for Precalc	3	MATH 135 Fundamentals of Precalculus I	4
ENG 101 Composition I	3	FCWR 101 Writing I	3
ELT 105 DC Circuits	3	ETEC 110 Electrical Technology I	4
ELT 107 Intro to Prog for Automation	3	ETEC/CTEC Elective	3
BHS 103 Social Problems in Today's World	3	ICBS Behavioral Science Seminar*	3
<b>Second Semester (15 credits)</b>			
Math Elective – <i>Recommended</i> MAT 185: Precalculus	3	MATH 136 Fundamentals of Precalculus II	4
ENG 102 Composition II	3	FCWR 151 Writing II	3
ELT 106 AC Circuits	3	ETEC 120 Electrical Technology II	4
ELT 108 Electronics I	3	ETEC 131 Electronics Technology I	4
ELT 115 Digital Fundamentals	3	CTEC 216 Digital Electronics	4
<b>Third Semester (16 credits)</b>			
ELT 122 Manufacturing Tools and Practices	3	Credit used to balance ETEC 110, 120, 131	-
ELT 213 Electro-Mechanical Devices	3	ETEC 240 Energy Technology	3
ELT 218 Electronics II	3	ETEC 231 Electronics Technology II	4
PHY 121 General Physics I	4	PHYS 130 Introductory Physics + 1 credit used to balance ETEC 231	4
American History Course	3	FCIQ 101 Foundations of Inquiry*	3
<b>Fourth Semester (17 credits)</b>			
ELT 216 Automation Systems	3	CTEC 235 Microcomputers I	4
ELT 250 ELT Capstone Project	2	Credit used to balance CTEC 216, 235	-
ENT 131 Technical Drawing	1	Credit used to balance MATH 135	-
Technical Elective	3	ETEC/CTEC Elective	3
CHE 111, CHE 121, or PHY 122	4	Course Equivalent: Chemistry Elective (4), or PHYS 150 Intro Physics II + 1 Physics Elec credit	4
Free Elective – <i>Recommended</i> MAT 221 Calculus I (4)	4	MATH 161 Basic Applied Calculus + 1 credit used to balance MATH 136	3
<b>TOTAL</b>	<b>63</b>	<b>TOTAL</b>	<b>63</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 310	Communication Circuits	4
ETEC 325	Applied Statistics	3
ETEC 410	Control Systems Technology	4
ETEC 495	Electrical Engineering Technology 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 241	Circuit Design and Fabrication	4
CTEC 243	Applied Computational Analysis I	3
CTEC 247	Applied Computational Analysis II	3
CTEC 336	Embedded Systems and IoT	4
CTEC 350	Microcontroller Based Systems	3
IENG 240	Engineering Economics	3
IENG 251	Project Engineering	3

Core and additional requirements:

FCSP 105	Foundations of Speech Communication	3
FCSC 101	Foundations of Scientific Process	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
PHYS 150/Elective	Intro Physics II (3) + Liberal Arts/Science Elec (2) <i>or</i>	
Liberal Arts/Science Electives (5)^		<u>5</u>

Total credits at New York Institute of Technology: 66

*^Requirement determined by science course completed at Dutchess CC*

*Babak D. Beheshti*

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

11/6/19

Date

▪ *Effective Fall 2019*