

QUEENSBOROUGH COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
<i>Associate in Science Engineering Science 2019</i>		<i>Bachelor of Science in Electrical and Computer Engineering 2019</i>	
Course	Credit	Course	Credit
Common Core			
Required Core: I .A ENGL 101 English Composition I ENGL 102 English Composition II	6	FCWR 101 Writing I FCWR 151 Writing II	3 3
Required Core: I.B Math & Quant Reasoning MA 441 Analytic Geometry and Calculus I	4	MATH 170 Calculus I	4
Required Core: I.C Life & Physical Science CH 151 General Chemistry I	4.5	CHEM 107 Engineering Chemistry I	4
Flexible Core: II.A World Cultures & Global Issues Restricted to HIST History	3	FCIQ 101 Foundations of Inquiry*	3
Flexible Core: II.B US Experience in Its Diversity Restricted to SP 211 Speech Communication	3	FCSP 105 Foundations of Speech Communication	3
Flexible Core: II.C Creative Expression Restricted to ARTH, MU, SP 471, SP 472 or TH 111	3	Liberal Arts Elective	3
Flexible Core II.D Individual & Society Restricted to PHIL, ANTH, or SOCY	3	Equivalent Elective	3
Flexible Core II.E Scientific World PH 411 Calculus Physics I	3.5	PHYS 170 General Physics I	4
Flexible Core II.F PH 412 Calculus Physics II	3	PHYS 225 Introduction to Modern Physics	3
Requirements for the Major			
MA-442 Analytic Geometry and Calculus II	4	MATH 180 Calculus II	4
MA-443 Analytic Geometry and Calculus III	4	MATH 260 Calculus III	4
MA-451 Differential Equations	4	MATH 320 Differential Equations	3
PH 413 Calculus Physics III	3.5	PHYS 180 General Physics II	4
EE-101 Engineering Design I	1	Credit to balance PHYS 170, PHYS 180	-
EE-204 Electric Circuits	3	EENG 211 Electrical Circuits I**	3
EE-103 Computer-Aided Analysis for Elec Engineers Computer Programming: ET-505 or CS-IOI	2 4	EENG- 221 CSCI I 25 Computer Programming 1	1 3
Engineering Advised Electives Recommended:			
EE-205 Linear Systems Analysis	3	EENG 281 Electrical Circuits II	3
ET-540 Digital Computer Theory I	4	EENG 125 Fundamentals of Digital Logic	3
TOTAL	65.5	TOTAL	61

*Transfer substitution awarded on the basis of this agreement

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

(Effective as of 2019)

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Program of Study at New York Institute of Technology

Bachelor of Science, Electrical and Computer Engineering

Courses to be completed at NYIT:

<u>Major courses:</u>		<u>Credits</u>
EENG 270	Introduction to Electronic Circuits	3
EENG 275	Electronics Laboratory I	1
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
EENG/CSCI	EENG/CSCI Electives	3
MENG 211	Engineering Mechanics I (Statics)	3

Computer Science

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 additional requirements:

FCSC 101	Foundations of Scientific Process	3
FCWR 304	Communication for Technical Professions	3
ICLT 3XX	Literature Seminar	3
ICBS or ICPH 3XX	Behavioral Science or Philosophy Seminar	3

(Requirement determined by *Individual & Society* course completed at QBCC)

ICSS 309	Technology and Global Issues	3
MATH 310	Linear Algebra	3

Total Credits at New York Institute of Technology 71



8/16/2019

Dr. Babak Dastgheib-Beheshti, Dean

Date

College of Engineering and Computing Sciences

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