NASSAU COMMUNITY COLLEGE	NEW YORK INSTITUTE OF TECHNOLOGY
Associate in Science	***Bachelor of Science***
Engineering Science	***Mechanical Engineering***
	2021

Course	Credit	Course	Credit
First Semester:			
CHE 151 Inorganic Chemistry I	4	CHEM 107 Engineering Chemistry	4
ENG 100 Enhanced Composition I *or* ENG 101 Composition I *or* ENG 108 The Craft of Composition	3	FCWR 101 Writing I	3
ENS 101 Graphics	1	MENG 105 Engineering Graphics	1
ENS 103 Elementary Engineering I	1	*	-
MAT 122 Calculus I	4	MATH 170 Calculus I	4
NCC 101 The College Experience (by advisement)	1	ETCS 105	2
PED Activity Course(s)	1	-	-
Second Semester:			
ECO 208 Principles of Microeconomics	3	Liberal Arts Elective	3
ENS 104 Computational Methods in Engineering	2	MENG 201 Engineering Programming*	3
ENG 102 Composition II *or* 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	-	-
Third Semester:			
ENS 205 Statics	3	MENG 211 Engineering Mechanics I	3
ENS 225 Engineering Circuit Analysis I	4	EENG 211 Electrical Circuits I EENG 275 Electronics Laboratory I	3 1
MAT 225 Multivariable Calculus	4	MATH 260 Calculus III	4
PHY 123 Engineering Physics II	4	STEM elective	3
General Elective *Recommended:* Psychology or Sociology	3	Behavioral Science equivalent	3
Fourth Semester:			
ENS 206 Dynamics	3	MENG 212 Engineering Mechanics II	3
ENS 226 Engineering Circuit Analysis II	4	ME technical elective	3
ENS 230 Engineering Thermodynamics	3	MENG 240 Thermodynamics	3
MATH 234 Elementary Differential Equations	3	MATH 320 Differential Equations	3
Technical Electives *Recommended:* PHY 222 Electricity and Magnetism	3-4	PHYS 180 General Physics II	4
TOTAL	**66-67**	**TOTAL**	**64**

*Both ENS 103 and ENS 104 must be satisfactorily completed in order to grant credit for MENG 201

NEW YORK INSTITUTE OF TECHNOLOGY

The following are courses necessary to complete the NYIT BS in Mechanical 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
Mechanical Engineering	
MENG 221 Strength of Materials	3
MENG 270 Instrumentation & Measurement	1
MENG 310 Introduction to Materials Science	3
MENG 320 Materials Mechanics Laboratory **OR** MENG 343 Thermofluids Laboratory	1
MENG 321 Introduction to Computer Aided Design	3
MENG 324 Vibrations and System Dynamics	3
MENG 340 Fluid Mechanics	3
MENG 346 Energy Conversion	4
MENG 349 Heat Transfer	3
MENG 370 Machine Design	3
MENG 438 Engineering Analysis	3
MENG 470 Senior Mechanical Engineering Design	4
M.E. Design Electives *(Choose two courses)*	
AENG 490 Flight Vehicle Design	(4)
MENG 443 Energy System Analysis & Design	(4)
MENG 446 Heating, Ventilation & Air Conditioning	(4)
MENG 486 Advanced Machine Design	(4)
	8 credits total
Engineering Management	
IENG 240 Engineering Economics	3
IENG 245 Statistical Design I	3
Mathematics and Sciences	
PHYS 225 Introduction to Modern Physics	3
Foundation Courses	
FCIQ 101 Foundations of Inquiry	3
FCSP 105 Foundations of Speech Communication	3
FCWR 304 Communication for Technical Professions	3
Seminars	
ICLT Literature Seminar	3
ICPH Philosophy Seminar	3
ICSS 309 Technology and Global Issues	3
TOTAL	**69**

Babak D. Beheshti

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

11/1/2021
Date