SUFFOLK COUNTY COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY 2022-2023	
Associate in Science *Engineering Science*		*Bachelor of Science* *Mechanical Engineering*	
Course	**Credit**	**Course**	**Credit**
First Semester:			
COL 101: Freshman Seminar	1	Liberal Arts Elective	1
ENG 101 Standard Freshman Composition	3	FCWR 101 Writing I	3
MAT141: Calculus with Analytic Geometry I	4	MATH 170 Calculus I	4
CHE133: College Chemistry I	4	CHEM I 07 Engineering Chemistry I	4
ENS112: Introduction to Engineering Design	2	ETCS 105 Career Discovery	2
Physical Education	1	-	-
Second Semester:			
ENG 102: Introduction to Literature	3	FCWR 151 Writing II	3
ENS117: Engineering Computations	3	MENG 201 Engineering Programming	3
CHE134: College Chemistry II	4	STEM Elective	3
MAT142: Calculus with Analytic Geometry II	4	MATH 180 Calculus II	4
PHY 130: Physics I (3) PHY132: Physics I Lab (I)	4	PHYS 170 General Physics I	4
Third Semester:			
DRF 114: Auto CAD I	3	MENG 105 Engineering Graphics	1
ENS 118: Engineering Mechanics: Statics	3	MENG 211 Engineering Mechanics 1 (Statics)	3
ENS233: Electrical Engineering Circuit Analysis	4	EENG 211 Electrical Circuits 1 (3) *and* EENG 275 Electronics Laboratory 1 (1)	4
MAT 204: Differential Equations	4	MATH 320 Differential Equations + Liberal Arts Elective (1)	4
PHY230: Physics II (3) PHY232: Physics II Lab (1)	4	PHYS 180 General Physics II	4
Fourth Semester:			
ENG 119: Engineering Mechanics Dynamics *or Engineering Elective*	3	MENG 212 Engineering Mechanics II (Dynamics)	3
HIS 101:WesternCivl or HIS 102:WesternCivll	3	Equivalent course	3
MAT203: Calculus with Analytical Geometry III	4	MATH 260 Calculus III	4
PHY245: Physics Ill (3) PHY246: Physics Ill Lab (I)	4	PHYS 225 Introduction to Modern Physics	3
Social Science Elective *Recommended: Psychology or Sociology*	3	Equivalent course	3
TOTAL	**68**	**TOTAL**	63

Program of Study at New York Institute of Technology:
Bachelor of Science in Mechanical Engineering

Courses to be completed at NYIT:

Major Courses:		Credit
MENG 221	Strength of Materials	3
MENG 240	Thermodynamics	3
MENG 310	Introduction to Materials Science	
MENG 320	Materials Mechanics Laboratory *or*	3
MENG 343	Thermofluids Laboratory	
MENG 321	Introduction to Computer Aided Design	1
MENG 324	Vibrations and System Dynamics	3
MENG 340	Fluid Mechanics	3
MENG 349	Heat Transfer	3
MENG 370	Machine Design	3
MENG 420	Modern Manufacturing	3
MENG 438	Engineering Analysis	4
MENG 470	Senior Mechanical Engineering Design	3
MENG ELEC	Mechanical Engineering Electives	4
		3

Design Electives *(Two courses from the following):*		
MENG 450	Mechatronic System Design (4)	
MENG 460	Thermal System Design(4)	8

Engineering Management		
IENG 240	Engineering Economics	3
IENG 245	Statistical Design I	3

Core and additional requirements:		
DATA 101	Making Sense of a Data-Oriented Society	3
FCWR 304	Comm for Technical Professions Literature	3
ICLT 3XX	Seminar	3
ICPH 3XX	Philosophy Seminar	3
IENG 400	Technology and Global Issues	3

Total credits at New York Institute of Technology: 66

Dr. Babak Beheshti, Dean
College of Engineering and Computing Sciences, New York Institute of Technology