

SUFFOLK COUNTY COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science Mechanical Engineering</i>	
Course	Credit	Course	Credit
First Semester: 15 credits			
COL 101: College 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 107 Engineering Chemistry I	4
ENS112: Introduction to Engineering Design	2	ETCS 105 Career Discovery	2
Physical Education	1	-	-
Second Semester: 18 credits			
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	FCSC 101 Foundations of Scientific Process + 1 Liberal Arts Elective credit	4
MAT142: Calculus with Analytic Geometry II	4	MATH 180 Calculus II	4
PHY 130: Physics I (3) PHY132: Physics I Lab (1)	4	PHYS 170 General Physics I	4
Third Semester: 18 credits			
DRF 114: AutoCAD I	3	MENG 105 Engineering Graphics	1
ENS 118: Engineering Mechanics: Statics	3	MENG 211 Engineering Mechanics I - <i>Statics</i>	3
ENS233: Electrical Engineering Circuit Analysis	4	EENG 211 Electrical Circuits 1 (3) <i>and</i> EENG 275 Electronics Laboratory	4
MAT 204: Differential Equations	4	MATH 320 Differential Equations + 1 Liberal Arts Elective credit	4
PHY230: Physics II (3) PHY232: Physics II Lab (1)	4	PHYS 180 General Physics II	4
Fourth Semester: 17 credits			
ENG 119: Engineering Mechanics Dynamics <i>or Engineering Elective</i>	3	MENG 212 Engineering Mechanics II - <i>Dynamics</i>	3
HIS 101: Western Civ I <i>or</i> HIS 102: Western Civ II	3	FCIQ 101 Foundations on Inquiry*	3
MAT203: Calculus with Analytical Geometry III	4	MATH 260 Calculus III	4
PHY245: Physics III (3) PHY246: Physics III Lab (1)	4	PHYS 225 Introduction to Modern Physics	3
Social Science Elective <i>Recommended: Psychology or Sociology</i>	3	Behavioral Science Equivalent	3
TOTAL	68	TOTAL	64

*Transfer substitution awarded on the basis of this agreement

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 270	Instrumentation and Measurement	1
MENG 310	Introduction to Materials Science Materials	3
MENG 320	Mechanics Laboratory <i>or</i>	
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 349	Heat Transfer	3
MENG 370	Machine Design	3
MENG 420	Modern Manufacturing	4
MENG 438	Engineering Analysis	3
MENG 470	Senior Mechanical Engineering Design	4
MENG ELEC	Mechanical Engineering Electives	3
Design Electives (<i>Two courses from the following</i>):		
AENG 490	Flight Vehicle Design (4)	
MENG 443	Energy System Analysis and Design (4)	
MENG 446	Heating, Ventilation and Air Conditioning (4)	
MENG 486	Advanced Machine Design (4)	8
Engineering Management		
IENG 240	Engineering Economics	3
IENG 245	Statistical Design I	3
Core and additional requirements:		
FCSP 105	Foundations of Speech Communication	3
FCWR 304	Comm for Technical Professions	3
ICLT 3XX	Literature Seminar	3
ICPH 3XX	Philosophy Seminar	3
ICSS 309	Technology and Global Issues	3
Total credits at New York Institute of Technology:		<u>69</u>



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

(Effective 2019-20)