

BERGEN COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
		2019	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science Mechanical Engineering</i>	
Course	Credit	Course	Credit
First Semester (17 credits)			
MAT-280 Calculus I	4	MATH 170 Calculus I	4
PHY-280 Physics I	4	PHYS 170 General Physics I	4
CHM-140 General Chemistry I	3	CHEM I 07 Engineering Chemistry I	4
CHM-141 General Chemistry - Lab	1		
DFT-107 Drafting I	2	MENG 105 Engineering Graphics	1
WRT-101 English Composition	3	FCWR IOI Writing I	3
Second Semester (18 credits)			
PHY-290 Physics II	4	PHYS 180 General Physics II	4
MAT-281 Calculus II	4	MATH 180 Calculus II	4
CIS-270 Programming for Science Applications	3	MENG 20 I Engineering Programming	3
CHM-240 General Chemistry II CHM-241 General Chemistry II - Lab	3	FCSC IO1 Foundations Scientific Process and Liberal Arts Elective (I credit)	3
WRT-201 English Composition II	3	FCWR 151 Writing II	3
Third Semester (17 credits)			
PHY-291 Physics III (Sci /math elective)	4	PHYS 225 Introduction to Modern Physics and Liberal Arts Elective (1 credit)	3
MAT-282 Calculus III	4	MATH 260 Calculus III	4
COM- I 00 Speech Comm <i>or</i> COM- I 02 Public Speak	3	FCSP I 05 Foundations of Public Speaking	3
Humanities: Restricted to Phil and Religion (PHR)	3	Philosophy Equivalent	3
		Behavioral Science Equivalent	3
Fourth Semester (14 credits)			
PHY-294 Engineering Mechanics (Sci /math elect)	4	MENG 211 Engineering Mechanics I	3
MAT-283 Differential Equations	4	MATH 320 Differential Equations and Liberal Arts Elective (I credit)	3
Humanities Elective: Restricted to Literature (LIT)	3	Literature Equivalent	3
Free Elective: Restricted to History (HIS)	3	FCIQ IO I Foundations of Inquiry*	3
Social Science Elective: Restricted to Psychology (PSY), <i>or</i> Sociology (SOC), <i>or</i> Anthropology (ANT)	3		
TOTAL	66	TOTAL	64

*Transfer substitution awarded on the basis of this agreement



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

9/24/19
Date

Effective as of 2019

Page 1 of 2

Program of Study at New York Institute of Technology

Bachelor of Science in Mechanical Engineering

Courses to be completed at NYIT:

<u>Major</u>		<u>Credits</u>
<u>Courses:</u>	Engineering Mechanics II	3
MENG 212	(Dynamics) Strength of	3
MENG 221	Materials Thermodynamics	3
MENG 240	Instrumentation and	1
MENG 270	Measurement Introduction	3
MENG 310	to Materials Science	1
MENG 320	Materials Mechanics	3
MENG 343	Laboratory <i>or</i> Thermofluids	3
MENG 321	Laboratory	3
MENG 324	Introduction to Computer	4
MENG 340	Aided Design Vibrations and	3
MENG 346	System Dynamics	3
MENG 349	Fluid	3
MENG 370	Mechanics	4
MENG 438	Energy	3
MENG 470	Conversion	8
MENG	Heat Transfer	
ELEC	Machine	
Design	Design	
Electives	Engineering	
	Analysis	
	Senior Mechanical	
	Engineering Design	
	Mechanical Engineering	
	Electives	

Electrical Engineering and Engineering Management:

EENG 211	Electrical Circuits I	3
EENG 275	Electronics Laboratory I	1
IENG 240	Engineering Economics	3
IENG 245	Statistical Design I	3

Core and additional requirements:

FCWR 304	Comm for Technical Professions	3
ICSS 309	Technology and Global Issues	3

Total credits at New York Institute of Technology