

DUTCHESS COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
		2019	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science in Mechanical Engineering</i>	
Course	Credit	Course	Credit
<b>First Semester: (15)</b>			
ENG 101 Composition I	3	FCWR 101 Writing I	3
CHE 121 General Chemistry I	4	CHEM 107 Engineering Chemistry I	4
MAT 221 Calculus I	4	MATH 170 Calculus I	4
ENR 101 Introduction to Engineering	2	ETCS 105	2
ENR 100 Engineering Technology Intro Seminar	1	Liberal Arts Elective (I)	1
ENT 131 Technical Drawing	1	MENG 105 Engineering Graphics	1
<b>Second Semester: (17)</b>			
ENG 102 Composition II	3	FCWR 151 Writing II	3
WFE 101 Lifetime Wellness and Fitness	3	-	
PHY 151 Engineering Physics I	4	PHYS 170 General Physics I	4
MAT 222 Calculus II	4	MATH 180 Calculus II	4
ENR 102 Computer Programming for Engineers	3	MENG 201 Engineering Programming	3
<b>Third Semester: (18)</b>			
PHY 152 Engineering Physics II	4	PHYS 180 General Physics II	4
MAT 223 Calculus III	4	MATH 260 Calculus III	4
ENR 208 Engineering Statistics	3	MENG 211 Engineering Mechanics I (Statics)	3
Technical Elective (3-4) <i>Restricted to ENR201 Intro Electrical Circuits &amp; Net</i>	4	EENG 211 Electrical Circuits I EENG 275 Electronics Laboratory I	3 1
BHS 103 Social Problems in Today's World	3	ICBS Behavioral Science Seminar	3
<b>Fourth Semester: (18)</b>			
PHY 251 Engineering Physics III	4	PHYS 225 Introduction to Modern Physics <i>and</i> Liberal Arts Elective (I)	3 1
MAT 224 Differential Equations	4	MATH 320 Differential Equations <i>and</i> Liberal Arts Elective (I)	3 1
American History (Appendix D)	3	FCIQ 101 Foundations of Inquiry*	3
Advanced Technical Electives (6-8) ENR 207 Engineering Materials Science ENR 209 Engineering Dynamics	4 3	MENG 310 Introduction to Materials Science MENG 212 Engineer Mechanics II (Dynamics)	3 3
If choose ENG 204 Mechanics of Materials	3	MENG 221 Mechanics of Materials	3
<b>TOTAL</b>	<b>68</b>	<b>TOTAL</b>	<b>64</b>

\*Transfer substitution awarded on the basis of this agreement

*Babak D. Beheshti*

11/6/19

Dr. Babak Dastgheib-Beheshti, Dean

Date

College of Engineering and Computing Sciences, NYIT

Effective as of 2019

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## Program of Study at New York Institute of Technology

### Bachelor of Science in Mechanical Engineering

Courses to be completed at NYIT:

<u>Major courses</u>		<u>Credits</u>
MENG 221	Strength of Materials (If not taken as an elective at Dutchess CC)	3
MENG 240	Thermodynamics	3
MENG 270	Instrumentation and Measurement	1
MENG 320	Materials 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 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
Design Electives		8
Mechanical Engineering Electives		3
<u>Core and additional requirements</u>		
FCSP 105	Foundations of Speech Communication	3
FCSC 101	Foundations of Scientific Process	3
FCWR 304	Communication for Technical Professions	3
ICLT 3XX	Literature Seminar	3
ICPH 3XX	Philosophy Seminar	3
ICSS 309	Technology and Global Issues	3
IENG 240	Engineering Economics	3
IENG 245	Statistical Design I	1
Total credits at New York Institute of Technology:		<u>69</u>