

DUTCHESS COMMUNITY COLLEGE		NEW YORK INSTITUTE OF TECHNOLOGY	
		2017	
<i>Associate in Science Engineering Science</i>		<i>Bachelor of Science in Mechanical Engineering</i>	
Course	Credit	Course	Credit
First Semester: (15)			
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	-	-
ENR 100 Engineering Technology Intro Seminar	1	Liberal Arts Elective (1)	1
ENT 131 Technical Drawing	1	MENG 105 Engineering Graphics	1
Second Semester: (17)			
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
Third Semester: (18)			
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 & Net</i>	4	EENG 211 Electrical Circuits I	3
BHS 103 Social Problems in Today's World	3	EENG 275 Electronics Laboratory I	1
		ICBS Behavioral Science Seminar	3
Fourth Semester: (18)			
PHY 251 Engineering Physics III	4	PHYS 225 Introduction to Modern Physics <i>and</i> Liberal Arts Elective (1)	3 1
MAT 224 Differential Equations	4	MATH 320 Differential Equations <i>and</i> Liberal Arts Elective (1)	3 1
American History (Appendix D)	3	FCIQ 101 Foundations of Inquiry*	3
Advanced Technical Electives (6-8) <i>Restricted to ENR 207 Engineering Materials Science</i> <i>Restricted to ENR 209 Engineering Dynamics</i>	4 3	MENG 310 Introduction to Materials Science	3
		MENG 212 Engineer Mechanics II (Dynamics)	3
TOTAL	68	TOTAL	62

*Transfer substitution awarded on the basis of this agreement.

PLAN OF STUDY

Approved by Dr. Nada Anid, Dean
School of Engineering and Computing Sciences, NYIT

- *Effective as of 2017*

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	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	<u>3</u>
 Total credits at New York Institute of Technology:	 <u>69</u>