Eugenio Maria de Hostos Community College and The City College

JOINT PROGRAM IN MECHANICAL ENGINEERING

Hostos

1103103			
First Year – Fall	Credits	Spring	Credits
MAT 210 Calculus I	4	MAT 220 Calculus II	4
ENG 110 Composition I	3	ENG 111 Literature and Composition	3
CHE 210 Chemistry I	3	PHY 210 Physics I	4
CHE 212 Chemistry Lab I	1		
*ENGR 10100 Engineering Design I	1	CHE 220 Chemistry II	3
*ME 145 Computer-Aided Drafting	2	CHE 222 Chemistry Lab II	1
Total	14	Total	15
Second Year – Fall	Credits	Spring	Credits
MAT 310 Calculus III	4	MAT 360 Differential Equations	3
PHY 220 Physics II	4	CHE 310 Organic Chemistry	3
		MAT 320 Linear Algebra/Vector	3
*ME 24600Engineering Mechanics I	3	*ME 24700 Engineering Mechanics II	3
*ENG 202 Technical Writing	3	*ME 32200 Computer Methods in	3
		Engineering	
*ENGR 20400 Electrical Circuits	3	*ME 33000 Mechanics of Materials	3
	17	Total	18

TOTAL HOSTOS CREDITS 64

Associate Degree in Mechanical Engineering Science (AS)

CCNY

Third	Year – Fall		Spring		
ME	31100 Fund of Mechatronics	3	ME	43000 Thermal Systems Analysis	3
ME	35600 Fluid Mechanics	3	ME	37100 Computer Aided Design	3
ME	46100 Engineering Materials	3	ME	41100 Systems Controls	4
	R 23000 Thermodynamics	3	ME	43300 Heat Transfer	3
	al Arts Electives**	<u>6</u>	ME	47200 Mechanical Systems Design	<u>3</u>
	Total	18		Total	16
Fourt	h Year – Fall		Spring		
ME	43600 Aero-Thermal-Fluids Lab	1	ME	47400 Senior Design Project II	3
ME	46200 Manufacturing Processes	3	Design	n Electives (2)	6
ME	46300 Micro/Nanotechnology	3	ME E	lective	3
ME	47300 Senior Design Project I	3	Libera	ll Arts Electives**	<u>6</u>
ME	40100 Reviews of Engr. Fund	1		Total	18
	al Arts Elective**	3			
	gn Elective (select one course)	<u>3</u>			
	Total	$\overline{17}$			

Design Electives (2 courses)

ME 44100: Advanced Stress

Analysis

ME 46600: Dynamics Aerospace

Vehicles

ME 46800: Aircraft and Rocket

Propulsion

ME 46900: Spacecraft Systems and

ME 47100: Energy Systems Design

(1-3 cr.)

ME 59500: Teaching/Research Exp.

ME 5980X-5990X: Special Topics in

ME 55500: Structural Dynamics and

Aeroelasticity

ME 55600: Advanced Fluid Mechanics

ME 57100: Mechanism Design

ME 57200: Aerodynamic Design

BME 50100: Cell and Tissue Mechanics

BME 50200: Cell and Tissue Transport

BME 50300: Cell and Tissue Biomaterial

Interactions

ME Electives (1 course)

ME 46700: Special Topics: Aerospace Engineering ME 47000: Special Projects:

Aerospace Engineering

ME 52600: Finite Element Method

ME 53600: Energy Conversion

ME 5900X-5910X: Special Projects

ME 51100: Advanced Mechatronics

ME 53700: Turbomachinery Design

ME 53900: Vehicular Power Systems

ME 54200: Introduction to the Theory

ME 54600: Robotics and Automation

ME 54700: Environmental Control

ME 51500: Orbital Mechanics

and Practice of Vibration

ME 54800: Aerostructures

ME 51400: Rotorcraft Aerodynamics

ME (3-6 cr.)

ME 59901: Product Development, Management, and Marketing PHY 32100: Modern Physics for

Engineers

Any course from Design Electives

TOTAL CCNY CREDITS 69

TOTAL DEGREE CREDITS 133

Bachelor of Engineering in Mechanical Engineering - B.E.(M.E.)

- Course will be co-listed. Students will be given a permit to attend CCNY until such time as there is sufficient enrollment to offer the course at Hostos.
- General Education/Liberal Arts Requirements:

Eligible courses that can be used to fulfill the general education requirement must be\equivalent to or selected from only those courses listed as meeting the objectives of the following four clusters: i) Professional and Ethical Responsibilities Cluster (Outcome f), ii) Communication Cluster (Outcome g), iii) Global and Societal Context Cluster (Outcome h), and iv) Contemporary Issues Cluster (outcome j). A list of approved courses is posted on the School of Engineering web site at http://www.cuny.edu/engineering and can be viewed at the Office of Undergraduate Affairs (T-209) or the Office of Student Programs (T-2M). This list is subject to periodic review and updates.