Eugenio Maria de Hostos Community College of the City University of New York Academic Advisement, Division of Academic Affairs

For an Associate in Applied Science (A. S) Degree in Mechanical Engineering

Mechanical Engineering

- > Hostos Community College (HCC) offers the Associate in Science (A.S.) degree in Mechanical Engineering as a jointly registered, dual admission program with the existing Bachelor of Engineering in Mechanical Engineering (B.E./M.E.) at the City College of New York (CCNY).
- > This program is designed to provide HCC students with the same curriculum as the first two years of the licensure qualifying Mechanical Engineering program required at CCNY. Upon successful completion of the lower division at HCC, students will have a seamless transition to the upper division of the baccalaureate program at CCNY.

Hostos Community College First Year – FallCredits HUM 100 **OR** SOC 101 **OR** PSY 1016.0 First Year - SpringCredits ENGR 204.....Electrical Circuits......3.0 Second Year – Spring Credits MAT 320.....Linear Algebra / Vector3.0 VPA 192Fundamentals of Public TOTAL HOSTOS CREDITS63.0 **Associate Degree in Mechanical Engineering Science (A.S.)**

CITY COLLEGE OF NEW YORK (CCNY) CCNY - Third Year – Fall......Credits ME 31100Fund of Mechatronics3.0 ENGR 23000......Thermodynamics.....3.0 Liberal Arts Electives** 6.0 Subtotal 18.0 CCNY - Third Year - SpringCredits ME 37100Computer Aided Design......3.0 CCNY - Fourth Year - Fall.....Credits ME 46300Micro/Nanotechnology3.0 Liberal Arts Elective** 3.0 CCNY - Fourth Year - SpringCredits MAT 360......Differential Equations3.0 MAT 320.....Linear Algebra / Vector3.0 ME 32200*......Computer Methods in Engineering.......3.0 **Design Electives (2 courses)** ME 44100 Advanced Stress Analysis ME 46600Dynamics Aerospace Vehicles ME 46800Aircraft and Rocket Propulsion ME 46900Spacecraft Systems and Design ME 47100 Energy Systems Design ME 51100Advanced Mechatronics ME 51400Rotorcraft Aerodynamics ME 51500Orbital Mechanics ME 53700Turbomachinery Design ME 53900Vehicular Power Systems ME 54600Robotics and Automation ME 54700Environmental Control ME 54800Aerostructures ME 55500Structural Dynamics and Aeroelasticity ME 55600Advanced Fluid Mechanics ME 57100 Mechanism Design ME 57200Aerodynamic 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 (1-3 cr.)
ME 59500	Teaching/Research Exp.
ME 5980X-5990X	Special Topics in ME (3-6 cr.)
ME 59901	Product Development, Management, and Marketing
PHY 32100	Modern Physics for Engineers
Any course from Design Electives	

Any course from Design Electives

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.

**Liberal Arts courses to be recommended by CCNY.

- 1. New freshmen engineering students are no longer required to take NSS 10000: New Freshman Seminar (0cr.).
- "C" Passing Grade Requirement: MAT 200; MAT 210; MAT 220; MAT 310; MAT 320; MAT 2. 360; CHE 210; CHE 220; CHE 310; PHY 210; PHY 220; ENGR 204; ME 24600 require a minimum passing grade of "C". It is required a 2.7 GPA in order to be transferred to City College.
- **CUNY ACT & SKAT Requirements:** Students must pass the 3. CUNY/ACT in Reading and Writing and CUNY Mathematics Skills Assessment Test before completing 61 credits.
- **General Education I Liberal Arts Requirements:** 4.

ME students must take six approved courses (18 credits) of which at least two (6 credits) must be at the 20000 level or higher. The six courses must satisfy at least three of the four approved general education clusters.

Only courses in these four clusters are eligible: Professional and Ethical Responsibilities Cluster (Outcome f), Communication Cluster (outcome g), Global and Societal Context Cluster (outcome h), and Contemporary issues Cluster (Outcome i). A list of approved courses is posted on the School of Engineering web site at /www.ccny.cuny.edu/enuineermnE/genrea.html and can be viewed at the Office of Undergraduate Affairs (ST-209) or the Office of Student Programs (ST-2M). This list is subject to periodic review and updates.

5. Other Graduation Requirements: Apply for graduation during registration for the last semester. Minimum GPA of 2.00. Minimum QPA of zero. Residency Requirement: 36 credits of 30000-level or Higher Mechanical Engineering courses.

- 6. **New Transfer Students** with credit for English 11000 should take Engr 10100 instead of FIQWS 10026; students with credit for Engr 10100 should take English 11000 instead of FIQWS 10026. Students with credit for Math 20200, but not Engr 10100, should take English 11000 and an additional 1-credit ME Elective course; they should not take Engr 10100 or FIQWS 10026.
- 7. **Program Changes:** Substitution of other courses for required courses must be approved by the Chair of the Mechanical Engineering Department (ST-233), and the Associate Dean of the Office of Undergraduate Affairs (ST-209) for final approval.