Hostos Community College

Engineering Program
Learning Outcomes Curriculum Map

Program/Department/Unit: Chemical, Civil, Electrical and Mechanical Engineering

Term/Year Revised: Spring 2016

HOSTOS NAMED TOP 10 FINALIST FOR THE 2015 ASPEN PRIZE FOR COMMUNITY COLLEGE EXCELLENCE

Suggested ways to complete the Curriculum Map:
√ - Program outcome is fully covered within the course through formal learning and/or assessment activities.
X - Program outcome is partially covered within the course through formal learning and/or assessment actives.
Or:
I - Program outcome is ***introduced*** in the course.
D - Program outcome is ***developed*** in the course.
M - Program outcome is ***mastered*** in the course.

Courses Offered in Program/Department/Unit

Learning Outcomes/Goals	ENG110	ENG111	HUM101	PSY101 or SOC101	VPA192	ENG202	HIS210 or HIS211	MAT160	MAT210	MAT215	MAT220	MAT310	MAT320	MAT360	CHE210	CHE220	CHE22800	CHE310/CHE312	CHE320	PHY210	PHY220	ENGR10300	ENGR204	CE20900	CE26400	ME14500	ME24600				
Demonstrate understanding of the scientific method and be able to apply it to real scenarios						I									I	D	M	M	M	D/M	D/M		D				D				
Exercise scientific and critical inquiry and interdisciplinary vision to solve real problems with ethical responsabilities						I		I	D	D	D	D	D/M	D/M	D	D/M	D/M	D/M	D/M	D/M	D/M	D	D		D		D				
Be able to communicate effecttively-orally and in writing-the concepts and the results of science and engineering	I	I	I	I	I	D	I								D	D	D	D	D	D	D										
Demonstrate knowledge and understanding of key concepts in natural sciences and engineering						I									I	D	D	D/M	D/M	I	D/M	D	D	I	D	I	D				
Demonstrate abstract mathematical reasoning skills and core conceptual knowledge in solving applied science and engineering problems								I	D	D	D	D	D	D	D	D	D	D	D	D	D/M	D	D	D	D	D	D				
Demonstrate understanding of basic engineering concepts																	D						D	I		I	D				
Demonstrate general education foundation rooted in global citizenship perspectives by exhibiting an appreciation, understanding, acceptance and respect for human differences, developing ability to interact with others espousing different views as well as to act with ethical principles.			I	I	I	D	D																								