

Inter-American University of Puerto Rico
 Bayamon Campus
 School of Engineering
 Mechanical Engineering Department
 Tel. 787-279-1912 ext. 2278, 2250, 2249
 Master of Science in Mechanical Engineering with Specialization in Energy (419)

Required Total Credits:	33 credits
Core Course Requirements	12 credits
Specialization Requirements	9 credits
Prescribed Distributive Requirements	6 credits
Thesis Requirements	6 credits
Total	33 credits

Revised: August 2013

FIRST YEAR									
First Semester					Second Semester				
Course Number	Title	Credits	Requisites	Approved	Course Number	Title	Credits	Requisites	Approved
MECN 6010	Advanced Engineering Mathematics	3			MECN 6030	Advanced Solid Mechanics	3		
MECN 6020	Advanced Thermodynamics	3			MECN 6040	Computational Modeling for Engineering	3		
MECN ____*	Specialization Requirement	3			MECN ____*	Specialization Requirement	3		
					MECN 6991	Thesis I	1	Department Chair or Coordinator Authorization	
	Total	9				Total	10		

SECOND YEAR									
Third Semester					Fourth Semester				
Course Number	Title	Credits	Requisites	Approved	Course Number	Title	Credits	Requisites	Approved
MECN ____*	Specialization Requirement	3			MECN ____**	Prescribed Distributive Requirements	3		
MECN ____**	Prescribed Distributive Requirements	3			MECN 6993	Thesis III	3	MECN 6992	
MECN 6992	Thesis II	2	MECN 6991						
	Total	8				Total	6		

* Specialization Requirement

** Prescribed Distributive Requirements

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*** Any student interested in the Master in Mechanical Engineering must have approved the following courses or equivalent:

- a. MECN 4202 Thermodynamics II
- b. MECN 3135 Solid Mechanics
- c. MATH 3400 Differential Equations

Energy Specialty Courses (9 credits)

MECN 6110 Renewable Energy	3 crs.
MECN 6120 Energy Management	3 crs.
MECN 6130 Sustainable Buildings	3 crs.

Prescribed Distributive Courses (6 credits)

MECN 5970 Advanced Topics in Mechanical Engineering	3 crs.
MECN 6140 Fuel Cells	3 crs.
MECN 6150 Advanced Power Generation	3 crs.
MECN 6240 Aerospace Materials	3 crs.
MECN 6250 Computational Fluid Dynamics	3 crs.
MECN 6260 Advanced Mechanical Vibration	3 crs.
MECN 6300 Advanced Control Systems	3 crs.
MECN 6510 Lighting Systems Design	3 crs.