

## Degree Plan: Master of Science in Mechanical Engineering College of Engineering and Computer Science 2011-2013 Catalog (New Degree Plan)

Name:			SID:				
	last	first middle					
Address							
	street	city, state	e	zip code			
Tel:	E-mail:		Adviser:	!			
I. Required	l core courses for all Mechanica	l Engineering majors:					
Course Number	Course Title		Semester Grade	e Comments or Substitutions			
MECE 6310	Intermediate Engineering Analysis		Semester Grade	Comments of Substitutions			
MECE 6320	Fracture Mechanics	3					
MECE 6341	Modeling of Physical Systems	3					
MECE 6372	Viscous Flow I	3					
WIEGE 0372	TOTAL						
II. Elective	courses selected by the student v	with consent of their faculty	adviser and the	e graduate program directo			
MECE 6190	Engineering Seminar	1					
MECE 6317	Corrosion Engineering	3					
MECE 6318	Thermodynamics of Materials	3					
MECE 6319	Thin Films and Surface Engineerin	g 3					
MECE 6321	Intermediate Composite Material D	Design 3					
MECE 6322	Ceramic Materials Engineering	3					
MECE 6323	Polymer Processing	3					
MECE 6324	Viscoelasticity Theory	3					
MECE 6325	Composite Structures Engineering	3					
MECE 6326	Polymer Engineering	3					
MECE 6327	Intermediate Nanotechnology	3					
MECE 6328	Spectroscopic Techniques	3					
MECE 6329	Introduction to Laser Material Proc						
MECE 6331	Intermediate Dynamics of Mechani	- C					
MECE 6331	Intermediate Mechanical Vibration	•					
MECE 6333	Nonlinear Dynamics and Chaos	3					
MECE 6334	Modeling MEMS and NEMS	3					
MECE 6335	Orthopedic Biomechanics	3					
MECE 6339	Tracking Theory and Applications	3					
MECE 6342	Modern Control Systems	3					
MECE 6343	Digital Control Systems	3					
MECE 6344	Nonlinear Control Systems	3					
MECE 6360	Advanced Mechanics of Materials	3					
MECE 6362	Finite Element Analysis	3					
MECE 6373	Viscous Flow II	3					
MECE 6375	Engineering Acoustics	3					
MECE 6379	Gas Dynamics	3					
MECE 6379 MECE 6380	Combustion Engineering	3					
	HVAC System Design	3					
MECE 6384							
MECE 6385	Thermal Systems	3					
MECE 6399	Topics in Mechanical Engineering	3	1				

Other Courses (see reverse)

TOTAL



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## III. Report and Thesis courses: (6 hours minimum)

Course Number	Course Title		Jours	Semester	Grade	Comments or Substitutions				
MECE 6397	Master's Report I		3	Semester	Grade	Comments of Substitutions				
MECE 6398	Master's Report II		3							
MECE 7300	Master's Thesis I		3							
MECE 7301	Master's Thesis II		3							
	TOTAL									
Other Courses*										
	TOTAL									
Extra Courses Completed*										
	TOTAL									
adviser and	n elect which courses they would the graduate program director. ion <sup>†</sup> (please check one):	_	the	y <u>must</u> ha	ve the	consent of their faculty				
Thesis Option: Add (I+II+III)		Thesis Defense			Total (30 hours minimum)					
Report O	ption: Add (I+II+III)	Oral Exam			Total (36 hours minimum)					
Course O	ption: Add (I+II)	Written and Oral	Exa	ms	Total	(36 hours minimum)				
Approved by:										
Department Chair Dean o				Dean or A	Associa	te Dean				
Date Approved	l:									

<sup>†</sup> Please refer to the Mechanical Engineering **Graduate Program Handbook** for detailed information about each degree option.