



Degree Plan: Master of Science in Mechanical Engineering
College of Engineering and Computer Science
2013-2016 Catalog

Dear Current and Prospective Graduate Students,

Below is a tentative list of all the graduate course offerings planned for the next three academic years. Please take the time to study the list carefully, and use it to start planning, with your faculty adviser, the courses you will be taking towards your Master's Degree in Mechanical Engineering. If you have any questions or concerns, please do not hesitate to contact the graduate program director.

Course #	Course Title	131	132	S13	141	142	S14	151	152	S15	161	162	Offered By
MECE 6190	Engineering Seminar	X	X		X	X		X	X		X	X	Staff
MECE 6310	Intermediate Engineering Analysis	X			X			X			X		Choutapalli
MECE 6317	Corrosion Engineering				X						X		Mihut
MECE 6318	Thermodynamics of Materials												Mihut
MECE 6319	Thin Films and Surface Engineering							X					Mihut
MECE 6320	Fracture Mechanics		X			X			X			X	Jones/Mihut
MECE 6321	Introduction to Composite Materials Eng.			X						X			Jones
MECE 6322	Ceramic Materials Engineering						X						Jones/Mihut
MECE 6323	Polymer Processing		X						X				Lozano
MECE 6324	Viscoelasticity Theory				X							X	Jones/Allen
MECE 6325	Composite Structures Engineering									X			Staff
MECE 6326	Polymer Engineering	X						X					Lozano
MECE 6327	Intermediate Nanotechnology					X						X	Lozano
MECE 6328	Spectroscopic Techniques						X						Staff
MECE 6329	Introduction to Laser Material Processing												Ahn
MECE 6331	Intermediate Dynamics of Mechanical Systems		X						X				Caruntu
MECE 6332	Intermediate Mechanical Vibrations					X							Fuentes
MECE 6333	Nonlinear Dynamics and Chaos				X						X		Caruntu
MECE 6334	Modeling MEMS and NEMS							X				X	Caruntu
MECE 6335	Orthopedic Biomechanics	X								X			Caruntu
MECE 6339	Tracking Theory and Applications												Ahn
MECE 6341	Modeling of Physical Systems		X			X			X			X	Kypuros
MECE 6342	Modern Control Systems						X						Ahn/Vasq
MECE 6343	Digital Control Systems			X						X			Vasquez
MECE 6344	Nonlinear Control Systems										X		Kypuros
MECE 6360	Advanced Mechanics of Materials		X						X				Fuent/Vasq
MECE 6362	Finite Element Analysis	X									X		Fuentes
MECE 6372	Viscous Flow I	X			X			X			X		Taraw/Park
MECE 6373	Viscous Flow II					X							Tarawneh
MECE 6375	Engineering Acoustics							X					Tarawneh
MECE 6399	Gas Dynamics								X				Choutapalli
MECE 6380	Combustion Engineering		X									X	Choutapalli
MECE 6384	HVAC System Design				X								Crown
MECE 6385	Thermal Systems					X							Park

Semester Code Key:

Fall 2012 = 131, Spring 2013 = 132, Summer 2013 = S13, Fall 2013 = 141, Spring 2014 = 142, Summer 2014 = S14, Fall 2014 = 151, Spring 2015 = 152, Summer 2015 = S15, Fall 2015 = 161, Spring 2016 = 162.