

MECHANICAL ENGINEERING AND APPLIED PHYSICS EMPHASIS DOUBLE DEGREES CURRICULUM
last update: 9-2012

1st YEAR

FALL SEMESTER			SPRING SEMESTER		
Course#	Description	Credit Hrs	Course#	Description	Credit Hrs
ME 123	Introduction to M.E.Design	3	PHYS 211	Physics I	4
Math 170	Calculus I	4	Math 175	Calculus II	4
Comm 101	Fundamentals of Speaking	2	Chem 111	Princ. of Chem. I	4
Engl 102	Core Comm. I	3		General Core	3
ISem 101	Integrative Sem.	3	Engr 210	Engineering Statics	3
	Total=	15		Total=	18

2nd YEAR

FALL SEMESTER			SPRING SEMESTER		
PHYS 212	Physics II	4	PHYS 213	Physics III	4
Math 310	Ordinary Differential Equ.	3	ME 301	Computer aided Engineering	3
PHYS 200	Seminar	1	Math 275	Calculus III	3
Engr 350	Eng. Mechanics Materials	3	Engr 220	Engineering Dynamics	3
ME 223	Mechanical Design Analysis	3	Engr 240	Intro. To Electrical Circuits	3
MSE 201	Engineering Materials (fall)	3			
	Total=	17		Total=	16

3rd YEAR

FALL SEMESTER			SPRING SEMESTER		
ME 313	Dynamic Dodeling	3	ME 325	Machine Design (Spr only)	3
ME 341	Intermediate Mechanics	3	ME 345	Heat Transfer	3
Engr 320	Engineering Thermo & Heat	3	ME 324	Dynamic Analysis in Design	3
Engr 335	Engineering Fluid Mechanics	3	ME 330	Experimental Method	3
Math 330	Linear Algebra	3	PHYS 305	Modern Physics	3
Elective	Economics elective	4	Phil 103	Ethics	3
ISem 301	.Integrative SEm.	1			
	Total=	20		Total=	18

4th YEAR

FALL SEMESTER			SPRING SEMESTER		
ME 424	Mechanical system Design I	3	CE 411	Fundamentals of Eng Review	3
ME 430	Senior Lab	3	PHYS 351	Intro. Quantum Mechanics I	3
ME 435	Therm. System Design	3	ME 412	Gas Dynamics	3
Engl 317	Techincal Writing	3	ME 420	Fluid Dynamics	3
Phys 321	Analytic Machnics I	3	Chem 112	Priciples of Chemstry II	5
Elective	Humanities/Social Science	3	PHYS 407 or 492	Senior Experience	1
	Total=	18		Total=	18

5th YEAR

FALL SEMESTER		
PHYS 341	Electromagnetic Fields I	3
PHYS 411	Advanced Physics Lab.	4
ME 413	Engineering Acoustics	3
Elective	Humanities/Social Science	3
	Total	12
	TOTAL=	154

