MASTER OF ENGINEERING IN MECHANICAL AND AEROSPACE ENGINEERING WITH SPECIALIZATION IN ENERGY/ENVIRONMENT/ECONOMICS (E3)

Curriculum

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Code	Title		Credit Hours
Engineering Analysis Courses			(6)
MMAE 501	Engineering Analysis I		3
MMAE 502	Engineering Analysis II		3
Core Courses			(9)
CHE 543	Energy, Environment, and Economics		3
Select a minimum of one course from	n the following:		3
CHE 503	Thermodynamics	3	
CHE 553	Advanced Thermodynamics	3	
MMAE 520	Advanced Thermodynamics	3	
Select a minimum of one course from the following:			3
CHE 541	Renewable Energy Technologies	3	
MMAE 522	Nuclear, Fossil-Fuel, and Sustainable Energy Systems	3	
MMAE 523	Fundamentals of Power Generation	3	
MMAE 524	Fundamentals of Combustion	3	
Non-Core Courses			(9)
Select a minimum of two courses from	om the following:		6
MMAE 524	Fundamentals of Combustion	3	
MMAE 525	Fundamentals of Heat Transfer	3	
MMAE 526	Heat Transfer: Conduction	3	
MMAE 527	Heat Transfer: Convection and Radiation	3	
Select a minimum of one course from	m the following:		3
CHE 541	Renewable Energy Technologies	3	
CHE/MMAE 560	Statistical Quality and Process Control	3	
ENVE 501	Environmental Chemistry	3	
ENVE 506	Chemodynamics	3	
ENVE 542	Physiochemical Processes in Environmental Engineering	3	
ENVE 551	Industrial Waste Treatment	3	
ENVE 561	Design of Environmental Engineering Processes	3	
ENVE 570	Air Pollution Meteorology	3	
ENVE 577	Design of Air Pollution Control Devices	3	
ENVE 578	Physical and Chemical Processes for Industrial Gas Cleaning	3	
ENVE 580	Hazardous Waste Engineering	3	
Electives			(6)
Select 6 credit hours			6
Total Credit Hours			30