

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

## Curriculum

Code	Title	Credit Hours
<b>Engineering Analysis Courses</b> (6)		
MMAE 501	Engineering Analysis I	3
MMAE 502	Engineering Analysis II	3
<b>Core Courses</b> (9)		
CHE 543	Energy Envir Economics	3
Select a minimum of one course from 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	Renwble Engrg Technologies	3
MMAE 522	Nuclear F-F & Sust Energy Sys	3
MMAE 523	Fundamentals Power Generation	3
MMAE 524	Fundamentals of Combustion	3
<b>Non-Core Courses</b> (9)		
Select a minimum of two courses from the following: 6		
MMAE 524	Fundamentals of Combustion	3
MMAE 525	Fundamentals of Heat Transfer	3
MMAE 526	Conduction and Diffusion	3
MMAE 527	Heat Trnsf Convection Radiatio	3
Select a minimum of one course from the following: 3		
CHE 541	Renwble Engrg Technologies	3
CHE 560	Ststcl Qlty Process Control	3
or MMAE 560 Ststcl Quality Procs Control		
ENVE 501	Environmental Chemistry	3
ENVE 506	Chemodynamics	3
ENVE 542	Physcheml Prcs in Envir Eng	3
ENVE 551	Industrial Waste Treatment	3
ENVE 561	Dsgn of Envrmtl Engr Prcs	3
ENVE 570	Air Pollution Meteorology	3
ENVE 577	Dsgn of Air Poltn Control Dvcs	3
ENVE 578	Phys&Chem Prcs Indus Gas Clng	3
ENVE 580	Hazardous Waste Engineering	3
<b>Electives</b> (6)		
Select six credit hours 6		
<b>Total Credit Hours</b>		<b>30</b>