

Master of Science in Mechanical Engineering (M.S.M.E. Degree)
2009-2010 Catalog

Name: _____

Degree Courses	Completed	Future	Sem/Year
Electrical and Power Systems			
ETLS 744 Intro to Power Systems			
Advanced Thermal & Fluid Systems			
ETLS 591 Advanced Thermal Systems			
Materials & Mechanics (1 Course Required) - 3 credits			
ETLS 723 Biomaterials in the Design of Medical Devices			
ETLS 771 Materials Engineering			
ETLS 773 Principles of MEMS Product Development			
ETLS 775 Polymers in Design			
Manufacturing (1 Course Required) - 3 credits			
ETLS 501 Production Operating Systems			
ETLS 502 Manufacturing Processes			
ETLS 506 Statistical Methods for Manufacturing Qualify			
ETLS 520 Design & Manufacturing in Med Dev Industry			
ETLS 770 Automated Control of Mfg Processes			
ETLS 772 Injection Molding, Die Casting & Related Net Shape processes			
Design & Product Development (1 Course Required) - 3 credits			
ETLS 555 Product Design			
ETLS 603 Design to Production Transition			
ETLS 773 Principles of MEMS Product Development			
ETLS 777 Finite Element Analysis			
Mechanical Systems (1 Course Required) - 3 credits			
ETLS 774 Introduction to Mechatronics			
ETLS 789 Simulation & Visualization of Dynamic Systems			
Project Options (Choose 1 Option - 6 credits)			
ETLS 881 Engineering Project - Pt I			
ETLS 882 Engineering Project - Pt II			
OR choose any two additional courses not previously taken to meet individual professional objectives. Advisor pre-approval is required.			
Electives (2 Course Required) - 6 credits			
Choose two additional courses to meet individual objectives. Advisor approval required.			

Advisor: _____ Date _____