

Mech and Aero - Joint (MAAJ)

Mechanical and Aerospace Engineering (Joint) (MAAJ) Courses

MAAJ 5001 [0.5 credit] (MCG 5101)
Theory of Elasticity

MAAJ 5002 [0.5 credit] (MCG 5102)
Advanced Stress Analysis

MAAJ 5003 [0.5 credit] (MCG5103)
Theory Perfectly Plastic Solid

MAAJ 5004 [0.5 credit] (MCG 5104)
Theory of Plates and Shells

MAAJ 5005 [0.5 credit] (MCG 5105)
Continuum Mechanics

MAAJ 5006 [0.5 credit] (MCG 5106)
Advanced Topics in Elasticity

MAAJ 5007 [0.5 credit] (MCG 5107)
Adv. Dynamics w/Applications

MAAJ 5008 [0.5 credit] (MCG 5108)
Finite Element Analysis

MAAJ 5009 [0.5 credit] (MCG 5109)
Topics:Finite Element Analysis

MAAJ 5050 [0.5 credit]
Fundamentals of Fluid Dynamics
Also listed as MECH 5000.

MAAJ 5059 [0.5 credit]
Environmental Fluid Mechanics
Includes: Experiential Learning Activity
Also listed as MECH 5009.

MAAJ 5100 [0.5 credit] (MCG 5110)
Micromechanics of Solids

MAAJ 5101 [0.5 credit] (MCG 5111)
Gas Dynamics

MAAJ 5104 [0.5 credit] (MCG 5114)
Analy and Des: Pressure Vessels

MAAJ 5105 [0.5 credit] (MCG 5115)
Non-Linear Optimization

MAAJ 5107 [0.5 credit] (MCG 5117)
Intro to Composite Materials
Includes: Experiential Learning Activity

MAAJ 5108 [0.5 credit] (MCG 5118)
Introduction to Plasticity

MAAJ 5109 [0.5 credit] (MCG 5119)
Fracture Mechanics

MAAJ 5151 [0.5 credit]
Dynamics and Aerodynamics of Flight
Includes: Experiential Learning Activity
Also listed as MECH 5101.

MAAJ 5155 [0.5 credit]
Orbital Mechanics and Space Control
Includes: Experiential Learning Activity
Also listed as MECH 5105.

MAAJ 5206 [0.5 credit] (MCG 5126)
Deformation of Materials

MAAJ 5209 [0.5 credit] (MCG 5129)
Hot Working of Metals

MAAJ 5254 [0.5 credit]
Fundamentals of Combustion
Also listed as MECH 5204.

MAAJ 5255 [0.5 credit]
Building Performance Simulation
Includes: Experiential Learning Activity
Also listed as MECH 5205.

MAAJ 5301 [0.5 credit] (MCG 5131)
Heat Transfer by Conduction

MAAJ 5302 [0.5 credit] (MCG 5132)
Heat Transfer by Convection

MAAJ 5303 [0.5 credit] (MCG 5133)
Heat Transfer by Radiation

MAAJ 5304 [0.5 credit] (MCG 5134)
Heat Transfer w/Phase Change

MAAJ 5306 [0.5 credit] (MCG 5136)
Fluid Mech and Heat Transfer

MAAJ 5307 [0.5 credit] (MCG 5137)
Solid Mechanics and Materials

MAAJ 5308 [0.5 credit] (MCG 5138)
Topics in Mech Engineering

MAAJ 5352 [0.5 credit]
Instrumentation Techniques
Also listed as MECH 5302.

MAAJ 5354 [0.5 credit]
Computational Fluid Dynamics of Compressible Flow
Also listed as MECH 5304.

MAAJ 5356 [0.5 credit] (MCG 5306)
Theory of Subsonic Flows

MAAJ 5357 [0.5 credit] (MCG 5307)
Theory of Supersonic Flows

MAAJ 5401 [0.5 credit] (MCG 5141)
Statistical Thermodynamics

MAAJ 5408 [0.5 credit] (MCG 5551)
Theorie d'Ecoulement Visqueux

MAAJ 5409 [0.5 credit] (MCG 5552)
Theorie de Turbulence

MAAJ 5451 [0.5 credit]
Turbomachinery
Includes: Experiential Learning Activity
Also listed as MECH 5401.

MAAJ 5452 [0.5 credit] (MCG 5144)
Superalloys and Ceramix-Metal Matrix Composites

MAAJ 5457 [0.5 credit]
Conductive and Radiative Heat Transfer
Also listed as MECH 5407.

MAAJ 5459 [0.5 credit] (MCG 5349)
Two-Phase Flow and Heat Transfer

MAAJ 5500 [0.5 credit] (MCG 5557)
Mecanique de Fluides

MAAJ 5501 [0.5 credit] (MCG 5151)
Laminar Flow Theory

MAAJ 5502 [0.5 credit] (MCG 5152)
Theory of Turbulance

MAAJ 5505 [0.5 credit] (MCG 5155)
Inviscid Flow Theory

MAAJ 5506 [0.5 credit] (MCG 5156)
Measurement of Fluid Mech

MAAJ 5507 [0.5 credit] (MCG 5157)
Num Comp:Fluid Dyn and Heat Tran

MAAJ 5508 [0.5 credit] (MCG 5158)
Industrial Fluid Mechanics

MAAJ 5509 [0.5 credit] (MCG 5159)
Production Planning and Control

MAAJ 5550 [0.5 credit]
Advanced Vibration Analysis
Includes: Experiential Learning Activity
Also listed as MECH 5500.

MAAJ 5555 [0.5 credit]
Stability Theory & Application
Also listed as MECH 5505.

MAAJ 5557 [0.5 credit]
Advanced Kinematics
Includes: Experiential Learning Activity
Also listed as MECH 5507.

MAAJ 5601 [0.5 credit] (MCG 5161)
Environmental Engineering

MAAJ 5608 [0.5 credit] (MCG 5168)
Industrial Organization

MAAJ 5609 [0.5 credit] (MCG 5169)
Topics in Reliability Engineer

MAAJ 5652 [0.5 credit] (MCG 5362)
Failure Prevention

MAAJ 5655 [0.5 credit]
Finite Element Analysis I
Also listed as MECH 5605.

MAAJ 5656 [0.5 credit]
The Boundary Element Method
Includes: Experiential Learning Activity
Also listed as MECH 5607.

MAAJ 5657 [0.5 credit]
Creative Problem Solving and Design
Also listed as MECH 5601.

MAAJ 5659 [0.5 credit]
Microstructure and Properties of Materials
Also listed as MECH 5609.

MAAJ 5700 [0.5 credit] (MCG 5170)
CAD/CAM
Includes: Experiential Learning Activity

MAAJ 5701 [0.5 credit] (MCG 5171)
Applied Reliability Theory

MAAJ 5702 [0.5 credit] (MCG 5172)
Mgmt of Automation

MAAJ 5703 [0.5 credit] (MCG 5173)
Systems Engineer and Integration

MAAJ 5706 [0.5 credit] (MCG 5176)
Industrial Control Systems
Includes: Experiential Learning Activity

MAAJ 5707 [0.5 credit] (MCG 5177)
Robot Mechanics

MAAJ 5708 [0.5 credit] (MCG 5178)
Advanced Topics in CAD/CAM
Includes: Experiential Learning Activity

MAAJ 5709 [0.5 credit] (MCG 5179)
Manufacturing System Analysis

MAAJ 5750 [0.5 credit]
Surfaces and Coatings
Also listed as MECH 5700.

MAAJ 5751 [0.5 credit] (MCG 5369)
Metallic Phases and Transformations

MAAJ 5800 [0.5 credit] (MCG 5180)
Fibre Composite Materials II

MAAJ 5801 [0.5 credit] (MCG 5181)
Advanced Vibrations

MAAJ 5802 [0.5 credit] (MCG 5182)
Theory of Elastic Instability

MAAJ 5804 [0.5 credit] (MCG 5184)
Mechatronics

MAAJ 5805 [0.5 credit] (MCG 5185)
Multivariate Digital Control

MAAJ 5806 [0.5 credit] (MCG 5186)
Non-Linear Disc Dyn and Control

MAAJ 5850 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5800.

MAAJ 5851 [0.5 credit] (MCG 5380)
Safety and Risk Assessment of Nuclear Power

MAAJ 5852 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5802.

MAAJ 5853 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5803.

MAAJ 5854 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5804.

MAAJ 5855 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5805.

MAAJ 5857 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5807.

MAAJ 5858 [0.5 credit]
Special Topics in Mechanical and Aerospace Engineering
Also listed as MECH 5808.

MAAJ 5901 [0.5 credit] (MCG 5191)
Combustion in Premixed Systems

MAAJ 5902 [0.5 credit] (MCG 5192)
Combustion in Diffusion System