MSE in MAE with Nuclear Power Generation (NPG) graduate certificate

Master of Science in Engineering (MSE) – Mechanical and Aerospace Engineering (MAE) with Nuclear Engineering focus

Must have MAE program committee chair, one member from EEE nuclear specialization and one member from MAE.

MSE – 30 credit hours:
  15 hours in major research area
  6 hours in mathematics
  9 hours in other engineering/science/math (outside major research area)

MSE with NPG Certificate – 36 hours:
  15 hours in major research area
  6 hours in mathematics
  15 hours in NPG

**Sample Program of Study (POS) MSE with NPG Certificate**

**Major:**
MAE 504 Experimental Methods in Thermal and Fluid Processes
MAE 586 Convective Heat Transfer
MAE 589 Heat and Mass Transfer
MAE 587 Radiation Heat Transfer
MAE 598 Sustainable Energy

**Math:**
MAE 501 Linear Algebra in Engineering
MAE 502 Partial Differential Equations in Engineering

**NPG:**
EEE 460 Nuclear Power Engineering
EEE 562 Nuclear Reactor Theory and Design
EEE 563 Nuclear Reactor System Dynamics and Diagnostics
EEE 564 Interdisciplinary Nuclear Power Operations
MSE 565 Structural Materials in Nuclear Power Systems