

MS in Chemical Engineering with Nuclear Power Generation (NPG) graduate certificate

Master of Science (MS) – Chemical Engineering with nuclear engineering emphasis

MS with NPG Certificate – 33 hours:

18 hours in chemical engineering core

15 hours in NPG

Sample Program of Study (POS) MS with NPG Certificate

Chemical Engineering Core Courses:

Students are required to take nine credit hours of graduate-level chemical engineering courses, exclusive of seminar (CHE 591), research (CHE 592), thesis (CHE 599) and reading and conference (CHE 590). These three courses (nine credit hours) must come from the following list:

CHE 533 Transport Processes I (3)

CHE 543 Thermodynamics of Chemical Systems (3)

CHE 544 Chemical Reactor Engineering (3)

Thesis or Applied Project, 3 hrs of CHE 592 or CHE 593

CHE Seminar, 3 hrs of CHE 591

MS Technical Elective Courses in Nuclear Power Generation:

EEE 460 (3): Nuclear Power Engineering {*example NPG elective*}

EEE 562 (3): Nuclear Reactor Theory and Design

EEE 563 (3): Nuclear Reactor System Dynamics and Diagnostics

EEE 564 (3): Interdisciplinary Nuclear Power Operations

MSE 565 (3): Structural Materials in Nuclear Power Systems