NUCLEAR ENGINEERING, M.E.

Degree Requirements (30 Hours)

A Nuclear Engineering M.E. student must complete 30 hours of graded graduate courses.

Course	Title Cr	edits
Required Core Co	ourses	
EMCH 552	Introduction to Nuclear Engineering	3
EMCH 553	Nuclear Fuel Cycles	3
EMCH 757	Radiation Shielding	3
or EMCH 557	Introduction to Radiation Shielding and Sources	
EMCH 758	Nuclear Reactor Systems	3
or EMCH 558	Introduction to Nuclear Reactor Systems	
Nuclear Engineer	ing Electives	12
Nuclear engineer advisor and inclu	ing electives must be approved by a student's de the following:	
EMCH 555	Instrumentation for Nuclear Engineering	
EMCH 550	Introduction to Nuclear Safeguards	
EMCH 573	Introduction to Nuclear Materials	
EMCH 753	Chemical Thermodynamic Calculations and Modeling with Applications	
EMCH 754	Thermal Hydraulic Design of Nuclear Reactors	
EMCH 755	Advanced Nuclear Engineering	
EMCH 756	Safety Analysis for Energy Systems	
EMCH 759	Waste Management in the Nuclear Industry	
EMCH 770	Predictive Modeling: Combining Experiments with Computations	
EMCH 772	Nuclear Materials	
EMCH 774	Radiation Damage	
Engineering Elect	tive	6
Engineering elect include the follow	ives must be approved by a student's advisor and <i>v</i> ing:	
Any Nuclear E	ngineering Elective (from above)	
Any Engineerir	ng course at 500 level or higher	
Other courses director	as approved by the student's advisor and graduate	
Total Credit Hour	S	30