

North Carolina State University

Nuclear Engineering Curriculum (Effective 2013-01-01)

1 + 3 Program with UNC Asheville

FALL SEMESTER

SPRING SEMESTER

Freshman Year (UNC Asheville)

MATH 191	Calculus I	4	MATH 192	Calculus II	4
LANG 120	Academic Writing & Crit Inquiry	4	ECON 102	Prin of Microeconomics (GEP)	3
E 101	Intro to Engr & Prob Solv	1	PHYS 221	Physics I	4
CHEM 111	General Chemistry Lab	1	XXX	GEP Course	3
CHEM 132	General Chemistry	3	XXX	GEP Course	3
		<u>13</u>			<u>17</u>

Sophomore Year (NC State)

MA 242	Calculus III	4	MA 341	Appl Differential Equations I	3
PY 208	Physics for Engrs & Sci II	3	MAE 208	Engineering Dynamics	3
PY 209	Physics for Engrs & Sci II Lab	1	CSC 112	Intro Computing - Fortran	3
NE 201	Introduction to Nuclear Energy	2	XXX	GEP Course	3
MAE 206	Engineering Statics	3	NE 202	Rad Sources, Intrct, Detect	4
HES XXX	Health Exercise Studies	1			<u>16</u>
HES XXX	Advanced Commun Elective	3			
E 115	Intro to Computing Environ	1			
		<u>18</u>			

Junior Year (NC State)

ISE 311	Engr Economic Analysis	3	MAE 308	Fluid Mechanics	3
NE 301	Fundamentals of Nuclear Engr	4	NE 400	Nuclear React Energy Convers	4
MAE 201	Engr Thermodynamics I	3	NE 401	React Analysis and Design	4
MA 401	Appl Differential Equations II	3	MSE 201	Struc & Prop of Engr Matls	3
XXX	GEP Course	3	HESF XXX	Health Exercise Studies	1
		<u>16</u>			<u>15</u>

Senior Year (NC State)

NE 402	Reactor Engineering	4	NE 405	Reactor Systems	3
NE 404	Radiation Safety and Shielding	3	NE 408	Nuclear Engr Design Project	3
NE 406	NE Senior Design Prep	1	XXX	Engr Technical Elective	3
NE XXX	NE Elective	3	XXX	GEP Course	3
XXX	Technical Elective	3	XXX	GEP Course	3
		<u>14</u>			<u>15</u>

Total hours shown: 124

Italics indicates the course is received from NC State by distance education technology (none).