

South Carolina State University

Nuclear Engineering Program Curriculum

Freshman

First Semester - SCSU	Second Semester - SCSU
E 150 English I 3	E 151 English II 3
M 153 Calculus I 3	M 163 Calculus II 3
UNIV 101 Intro to Comm 2	P 254/251 General Physics I 4
C 150/151 General Chemistry I 4	ET 150 Mech Draw & Basic CAD 3
ENGR/ET 170 Intro to Engineering 3	C 152/153 General Chemistry II 4
PE 150 or HED 150 or MS 150 2	
17	17

Sophomore

First Semester - SCSU	Second Semester - SCSU
M 237 Calculus III 3	M 238 Calculus IV 3
ENGR 212 Statics 3	EET 230 Circuit Analysis 3
M 208 Introduction to Statistics 3	M 403 Differential Equations 3
NE 305 Intro to Nuclear Engr 3	ENGR 213 Strength of Materials 3
NEEP 271 Engr Prob. Solving I 3	P 406 Intro to Modern Physics 3
P 255/253 General Physics II 4	NE 397 Nuclear Energy 3
19	18

Junior

First Semester - SCSU	Second Semester - SCSU
ENGR 313 Dynamics 3	ENGR 425 Fluid Dynamics 3
ENGR 417 Mech of Materials Lab 3	P 313 Radioisotope Laboratory 3
M 350 Applied Mathematics 3	ENGR 435 Heat Transfer 3
ENGR 421 Thermodynamics 3	ET 250 Technical Communication 3
Liberal Studies Elective 3	H 250 or H 251 History 3
Computing Elective 3	NEEP 405 Nuclear Reactor Theory 3
18	18

Senior

First Semester - SCSU	Second Semester - UW
NE 408 Ionizing Radiation 3	NEEP 428 Nuclear Reactor Lab 2
NE 411 Nuclear Reactor Engr 3	NEEP 571 Env & Econ Analysis 3
ENGR 450 Engineering Materials 3	NEEP Approved Nuclear Elective 3
E 250 or E 251 Literature 3	NEEP 412 Reactor Design 5
Liberal Studies Elective 3	Liberal Studies Elective 3
NE 499 Special Topics in NE 1/2	
16/17	16

Total credits required for graduation 139/140