

PROPOSED NEW CURRICULUM

Nuclear Engineering Curriculum

(139/140 Credit Hours)

Freshman

First Semester - SC STATE

E 150 English I	3
M 158 Calculus I	4
UNIV 101 Intro. to Comm.	2
C 150/151 General Chemistry I	4
ENGR/ET 170 Intro to Engineering	3
**PEO 150 or HED 151 or MS 101	2

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Second Semester - SC STATE

E 151 English II	3
M 168 Calculus II	4
P 254/251 General Physics I	4
ET 150 Mech. Draw & Basic CAD	3
C 152/153 General Chemistry II	4

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Sophomore

First Semester - SC STATE

M 278 Calculus III	4
P 255/253 General Physics II	4
ENGR 212 Statics	3
NE 397 Nuclear Energy	3
+Computing Elective	3
E 250 or E 251 Literature	3

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Second Semester - SC STATE

NEEP 271 Engr. Prob. Solving I	3
EET 230 Circuit Analysis	3
M 403 Differential Equations	3
P 406 Intro to Modern Physics	3
ENGR 213 Strength of Materials	3
NE 305 Intro to Nuclear Engr.	3

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Junior

First Semester - SC STATE

M 208 Introduction to Statistics	3
ENGR 313 Dynamics	3
M 350 Applied Mathematics	3
ENGR 421 Thermodynamics	3
ENGR 435 Heat Transfer	3
~Liberal Studies Elective	3

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Second Semester - SC STATE

ENGR 425 Fluid Dynamics	3
P 313 Radioisotope Laboratory	3
ENGR 417 Mech. of Materials Lab	3
ET 250 Tech. Comm. or S 250 Public Spe.	3
H 250 or H 251 History	3
NEEP 405 Nuclear Reactor Theory	3

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Senior

First Semester - SC STATE

~Liberal Studies Elective	3
NE 411 Nuclear Reactor Engr.	3
ENGR 450 Engineering Materials	3
NEEP 471 Econ. & Env. Asp. of NE	3
NE 408 Ionizing Radiation	3
*NE 406 Senior Design Prep.	1
NE 499 Special Topics in NE	2

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Second Semester – UW/NCSU

^NEEP 412 Reactor Design	5
^NEEP 428 Nuclear Reactor Lab	2
^NEEP/*NE Approved Elective	3
*NE 408 Senior Design	3
*NE 491 Reactor Lab	2
~Liberal Studies Elective	3

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+Required Computing Elective

CS 161 – Intro. to Programming or EET 320 – Intro. to Computer Programming

~Required Liberal Studies Elective

- (1) PSY 250 – Intro. to Psychology or SOC 250 – Intro. to Sociology
- (2) ETS 250 – African American History or HHU 250 – The African American Experience
- (3) ARTS 250 – Art Appreciation or MU 250 – Music Appreciation or D 254 – Drama

^for students going to the University of Wisconsin (UWM)

**for students going to North Carolina State University (NCSU)*

**** students may take any of the following courses (below) within the Physical Education 150 series**

(PEA, PEB, PEC, PEF, PEG, PEH, PEI, PEJ, PEK, PEL, PEM, PEN, PEO, PEP, PEQ, PER, PES, PET, PEU, PEV)