R4 5/15/ <sup>-</sup>	NRE Undergraduate Curriculum (Catalog: 2012 - 2013)							
Freshman	Fall	CHEM 1310 General Chemistry (See Note 2) 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	US Perspective HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 [Social Science] 3-0-3	Wellness APPH 1040, APPH 1050 or HPS 1040 2-0-2	ENGL 1101 English Composition 1 3-0-3	= 16 hours	
Fresh	Spring	PHYS 2211     Physics 1     3-3-4     MATH 1501	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	CS 1371 Introduction to Computing 3-0-3	NRE 2110 Introduction to Nuclear & Rad. Engineering 2-0-2	ENGL 1102 English Composition 2 3-0-3 ENGL 1101	= 16 hours	
Sophomore	Fall	PHYS 2212     Physics 2     3-3-4     PHYS 2211	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502	COE 2001     Statics     2-0-2     MATH 1502, PHYS 2211	Economics ECON 2100, 2101, 2105 or 2106 (See Note 4) 3-0-3	Social Science Elective (See Note 5) 3-0-3	= 16 hours	
Soph	Spring	PHYS 2213 Introduction to Modern Physics <u>3-0-3</u> PHYS 2212	MATH 2403 Differential Equations (Minimum Grade C) 4-0-4 MATH 1502	NRE 3301 Radiation Physics 3-0-3 MATH 1502, PHYS 2211	MSE 2001 Engineering Materials <u>3-0-3</u> CHEM 1310	ECE 3710 Circuits & Electronics 2-0-2 PHYS 2212	= 15 hours = 16 hours	
Junior	Fall	NRE 3112 Nuc. Radiation Detection (See Note 1, No W's) 2-3-3 NRE 3301	ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2403	ME 3340     Fluid Mechanics (See Note 7)     3-0-3     COE 2001, ME 3322*     MATH 2401, MATH 2403, ME 2202 (See Note 7)	ECE 3025 Electro- magnetics 3-0-3 ECE 3710, MATH 2401 MATH 2403, NRE 2110	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710	Humanities Elective (See note 5) 3-0-3	
	Spring	NRE 3208 Nuclear Reactor Physics I 3-0-3 NRE 3301, MATH 2403	NRE 3316 Radiation Protection Engineering 3-0-3 NRE 3301, MATH 2403	COE 3001 Mechanics of Deformable Bodies <u>3-0-3</u> COE 2001, MATH 2403*	ME 3345 Heat Transfer <u>3-0-3</u> ME 3322, ME 3340, MATH 2403	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2105 or 2106)	MATH/ISYE 3770 Statistics (Minimum Grade C) 3-0-3 MATH 2401	
Senior	Fall	NRE 4208Nuclear Reactor Physics II4-0-4NRE 3208, MATH 2403	NRE 4214     Reactor     Engineering     3-0-3     ME 3322, ME 3340, ME 3345	NRE 4328 Radiation Sources & Applications 3-0-3 NRE 3301, NRE 3316	Technical Elective (See Note 3) 3-0-3	Social Science Elective (See Note 5) 3-0-3	= 16 hours = 16 hours	
	Sprinç	NRE 3112, NRE 4208	NRE 4232 NRE Design (See Note 1, No W's) 1-9-4 NRE 4328, NRE 4208	Technical   Elective   (See Note 3)   3-0-3	Technical Elective (See Note 3) 3-0-3	Humanities Elective (See Note 5) 3-0-3	= 15 hours	
1.	NRE	3112, 4206 & 4232 canr	an asterick (*) after it. These not be dropped after registra an substitute for CHEM 131	126 Total Hours				
3.	Tecł	nnical Electives are any	3000 level courses or abov	Required Overlay Areas				
	Eco		ate any other class used for ceive credit for only one of	Ethics PHIL 3105, PHIL 3109, PHIL 3127, PHIL 4176,	Global			

See Note 6

3-0-3

See Note 6

3-0-3

6. Overlay Areas: Global Perspective and Ethics must both be taken as parts of the curriculum.

They can be used as humanities electives, economics or social science electives. See page 2 for details. 7. NRE students do not take ME 2202, so NRE 3301 or NRE 2110 will satisfy the pre-req for registration.

