

NRE Undergraduate Curriculum (Catalog: 2014 - 2015)

6/5/14 NRE Undergraduate Curriculum (Catalog: 2014 - 2015)							5)
Freshman	Fall	CHEM 1310 General Chemistry (See Note 2) 3-3-4 PHYS 2211	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4 MATH 1502	US Perspective HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 [Social Science] 3-0-3 CS 1371	Wellness APPH 1040 or APPH 1050 2-0-2 NRE 2110	ENGL 1101 English Composition 1 3-0-3 ENGL 1102	= 16 hours
	Spring		Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	Introduction to Computing 3-0-3	Introduction to Nuclear & Rad. Engineering 2-0-2	English Composition 2 <u>3-0-3</u> 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
	Spring	PHYS 2213 Introduction to Modern Physics 3-0-3 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 3-0-3 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 3670 Statistics & Applications (Minimum Grade C) 3-0-3 MATH 2401
	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 4328Radiation Sources& Applications3-0-3NRE 3301, NRE 3316	Technical Elective (See Note 3) 3-0-3	Social Science Elective (See Note 5) 3-0-3	= 16 hours = 16 hours
	Spring	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			
	 CHEM 1310: CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students. Technical Electives are any 3000 level courses or above from the Colleges of Engineering, Science or Required Overlay Area 						verlay Areas
5. 6.	Computing that do not duplicate any other class used for the BSNRE degree. See back for more information. Economics: Students can receive credit for only one of ECON 2100, ECON 2101, ECON 2105 & ECON 2106. The only exception is that students can receive 6 hours credit for both ECON 2105 and ECON 2106. Humanities Electives and Social Science Electives: See page 2 for a link to the list of classes. 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. NRE students do not take ME 2202 so NRE 3301 or NRE 2110 will satisfy the pre-reg for registration.						

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.

