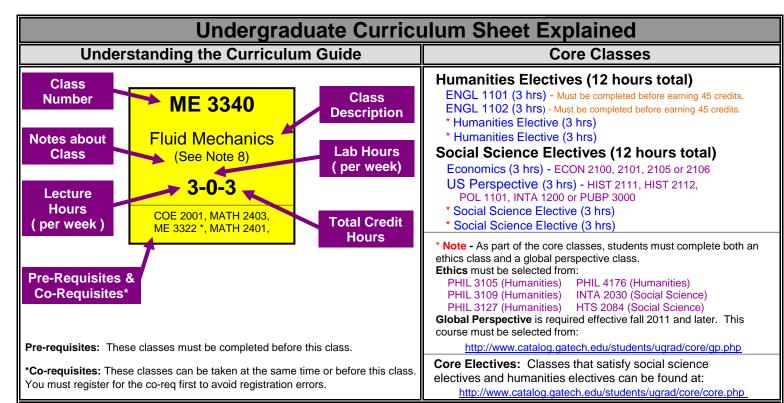
NRE Undergraduate Curriculum (Catalog: 2011 - 2012)

	te ondergre				
CHEM 1310 General Chemistry (See Note 5) 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 [Humanities] 3-0-3	= 16 hours
PHYS 2211 Physics 1 3-3-4 MATH 1501	MATH 1502 Calculus 2 (Minimum Grade C) 4-0-4 MATH 1501	Introduction to Computing 3-0-3	NRE 2110 Introduction to Nuclear & Rad. Engineering 2-0-2	ENGL 1102 English Composition 2 [Humanities] 3-0-3 ENGL 1101	= 16 hours
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, ECON 2105 or ECON 2106 [Social Science] (See Note 5) 3-0-3	Social Science or Humanities Elective 1 (See Note 2) 3-0-3	= 16 hours
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	Circuits & Electronics 2-0-2 PHYS 2212	= 15 hours = 16 hours
NRE 3112 Nuc. Radiation Detection (See Note 7, No W's) 2-3-3 NRE 3301	ME 3322 Thermodynamics 3-0-3 PHYS 2211, MATH 2403	ME 3340 Fluid Mechanics (See Note 8) 3-0-3 COE 2001, ME 3322* MATH 2401, MATH 2403, ME 2202 (See Note 8)	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	Global Perspective [Hum or Soc Sci] (See Notes 2 & 9) 3-0-3
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 3-0-3	ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340,	ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2105	MATH/ISYE 3770 Statistics (Minimum Grade C) 3-0-3 MATH 2401
	11112 355 1, 1111 1111 2 155	COE 2001, MATH 2403*	MATH 2403	or 2106)	WATH 2401
NRE 4208 Nuclear Reactor Physics II 4-0-4 NRE 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 4) 3-0-3	or 2106) Ethics HTS 2084, INTA 2030, PHIL 3105, PHIL 3109, PHIL 3127 or PHIL 4176 (See Notes 1 & 3) 3-0-3	= 16 hours = 16 hours
	General Chemistry (See Note 5) 3-3-4 PHYS 2211 Physics 1 3-3-4 MATH 1501 PHYS 2212 Physics 2 3-3-4 PHYS 2211 PHYS 2213 Introduction to Modern Physics 3-0-3 PHYS 2212 NRE 3112 Nuc. Radiation Detection (See Note 7, No W's) 2-3-3 NRE 3301 NRE 3208 Nuclear Reactor Physics I 3-0-3	Calculus 1	Calculus 1	Calculus 1	Calculus 1

- 1. Ethics PHIL 3105, 3109, 3127 & 4176 are humanities (HUM). HTS 2084 & INTA 2030 are social sciences (SS)
- 2. Between Global Perspective and Social Science or Humanities Elective 1, one must be a social science elective and one must be a humanities elective.
- 3. Between Ethics and Social Science or Humanities Elective 2, one must be a social science elective and one must be a humanities elective.
- 4. Technical Electives are any 3000 level courses or above from the Colleges of Engineering, Science or Computing that do not duplicate any other class used for the BSNRE degree. See back for more information.
- 5. CHEM 1211K can substitute for CHEM 1310. CHEM 1211K & 1212K are recommended for pre-health students
- Students can receive credit for only ONE of ECON 2100, ECON 2105 or ECON 2106. The only exception is that students can receive 6 hours credit for both ECON 2105 and ECON 2106.
- 7. NRE 3112, 4206 & 4232 cannot be dropped after registration ends without documented medical reasons.
- 8. NRE students do not take ME 2202, so NRE 3301 or NRE 2110 will satisfy the pre-req for registration.
- 9. Global Perspective: This requirement is effective fall 2011 & later. See back for website with eligible classes.
- General Requirements
- A. All classes must be taken LETTER GRADE. B. Minimum grade of D required for each class, except as noted.
- C. Overall GPA must be greater than 2.00 at graduation.
- D. NRE GPA (including all NRE classes) must be greater than 2.00 at graduation.



Technical Electives

- Technical Electives may be selected from any course offered in the College of Engineering, Science or Computing at the 3000 level or above, excluding Psychology (PSYC) and Applied Physiology (APPH).
- 2. Technical electives cannot overlap any other course which you intend to use for your BSNRE.
- 3. Students with a 3.2 GPA or above may use graduate level NRE classes as Technical Electives.
- **4. Research:** Students may use 4 hours maximum of 4699 or 4903 for technical elective credit. Research does not have to be NRE specific research; it can be from the colleges of engineering, science or computing.

Class Offerings

Class	Frequency of Offering	
NRE 2110	Spring	
NRE 3112	Fall	
NRE 3208	Spring	
NRE 3301	Spring	
NRE 3316	Spring	
NRE 4206	Spring	
NRE 4208	Fall	
NRE 4214	Fall	
NRE 4232	Spring	
NRE 4328	Fall	
COE 2001	Every Semester *	
COE 3001	Every Semester *	
ECE 3025	Every Semester *	
ISYE/MATH 3770	Every Semester *	
ME 3322	Every Semester *	
ME 3340	Every Semester *	
ME 3345	Every Semester *	

^{*} Summer classes may be cancelled due to low enrollments.