NPE Undergraduate Curriculum (Catalog: 2008 - 2000)

2/12/	09	NI	RE Undergra	aduate Curric	culum (Catalo	og: 2008 - 2009	9)
hman	ing Fall	CHEM 1310 General Chemistry 3-3-4	MATH 1501 Calculus 1 (Minimum Grade C) 4-0-4	HISTORY HIST 2111, HIST 2112, POL 1101, INTA 1200, or PUBP 3000 (Social Scien, See Note 4) 3-0-3	HPS 1040 Wellness 2-0-2	ENGL 1101 English Composition 1 [Humanities] 3-0-3	= 16 hours
Fres	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 [Humanities] 3-0-3 ENGL 1101	= 16 hours
Sophomore	Spring Fall	PHYS 2212 Physics 2 3-3-4 PHYS 2211 PHYS 2213 Introduction to Modern Physics 3-0-3 PHYS 2212	MATH 2401 Calculus 3 (Minimum Grade C) 4-0-4 MATH 1502 MATH 2403 Differential Equations (Minimum Grade C) 4-0-4 MATH 1502	COE 2001 Statics 2-0-2 MATH 1502, PHYS 2211 NRE 3212 Fundamentals of NRE 3-0-3 PHYS 2212, MATH 2401,	ECON 2100, ECON 2105 or ECON 2106 [Social Science] (See Note 5) 3-0-3 MSE 2001 Engineering Materials 3-0-3 CHEM 1310	Humanities Elective 3-0-3 ECE 3710 Circuits & Electronics 2-0-2 PHYS 2212	= 16 hours = 15 hours = 16 hours
Junior	Spring Fall	NRE 3301RadiationPhysics3-0-3PHYS 2213*NRE 3112Nuc. RadiationDetection(See Note 6, No W's)2-3-3	ME 3322 Thermo- dynamics 3-0-3 PHYS 2211, MATH 2403 NRE 3316 Radiation Protection Engineering 3-0-3	PHYS 2213*, MATH 2403* ME 3340 Fluid Mechanics (See Note 7) 3-0-3 COE 2001, MATH 2403 ME 2202 (See Note 7), ME 3322* COE 3001 Mechanics of Deformable Bodies 3-0-3 COE 2001, MSE 2001*,	ECE 3025 Electro- magnetics 3-0-3 ECE 3710, MATH 2401 MATH 2403, NRE 2110 ME 3345 Heat Transfer 3-0-3 ME 3322, ME 3340,	ECE 3741 Instrument & Electronics Lab 0-3-1 ECE 3710 ISYE 3025 Engineering Economics 1-0-1 (ECON 2100, 2105	Social Science Elective 3-0-3 MATH/ISYE 3770 Statistics (Minimum Grade C) 3-0-3
Senior	Fall	NRE 3301 NRE 4204 Nuclear Reactor Physics 4-0-4 NRE 3301, MATH 2403	NRE 3301, 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	MATH 2403 Technical Elective (See Note 2) 3-0-3	or 2106) Ethics HTS 2084, INTA 2030, PST 3105, PST 3109, PST 3127 or PST 4176 (See Notes 1 & 3) 3-0-3	= 16 hours = 16 hours
NO	Spring	NRE 3112, NRE 4204	NRE 4232 NRE Design (See Note 6, No W's) 1-9-4 NRE 4328, NRE 4204	Technical Elective (See Note 2) 3-0-3	Technical Elective (See Note 2) 3-0-3	Social Science or Humanities Elective (See Note 3) 3-0-3	= 15 hours
	NOTES: 1. Ethics - PST 3105, 3109, 3127 & 4176 are humanities (HUM). HTS 2084 & INTA 2030 are social sciences (SS). 126 Total Ho					al Hours	

1. Ethics - PST 3105, 3109, 3127 & 4176 are humanities (HUM). HTS 2084 & INTA 2030 are social sciences (SS).

2. 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). This course cannot overlap any course which you intend to use for your BSNRE.

3. If Ethics is humanities, social science elective is required for the Social Science or Humanities Elective. If Ethics is social science, humanities elective is required for the Social Science or Humanities Elective.

- 4. Credit is only awarded for INTA 1200 or POL 1101, not both. Classes are exactly the same.
- 5. Credit is awarded for only Econ 2100 or Econ 2101 or (Econ 2105 and/or Econ 2106).
- 6. NRE 3112, 4206 & 4232 cannot be dropped after registration ends without documented medical reasons.

7. NRE students do not take ME 2202, so NRE 3212 or NRE 2110 will satisfy the pre-req for registration. * Class co-requisites have an asterick (*) after the class. Pre-reqs do not have an asterick behind the class. 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.

Uni	dergraduate Curricu	ulum Sheet Explai	ned
Understanding	the Curriculum Guide	Core Classe	S
Notes about Class Lecture Hours (per week) COE ME 2 Pre-Requisites & Co-Requisites: These cla can take the class. *Co-requisites: These cla	IE 3340 Class Description J Mechanics See Note 7) 3-0-3 2001, MATH 2403, 202 (See Note 7), ME 3322* Sees must be completed before you classes can be taken at the same time.	Humanities Electives (12 hor ENGL 1101 (3 hrs) ENGL 1102 (3 hrs) Humanities Elective (3 hrs) * Humanities Elective (3 hrs) Social Science Electives (12 Economics (3 hrs) - ECON 2100, ECC History (3 hrs) - HIST 2111, HIST 2112 or PUBP 3000 Social Science Elective (3 hrs) * Social Science Elective (3 hrs) * Note: One humanities or social science ethics. Ethics must be selected from: PST 3105 (Humanities) PST 4176 (Hum PST 3109 (Humanities) HTS 2084 (Soc Electives: Classes that satisfy social science humanities electives can be found at:	hours total) N 2105 or ECON 2106 , POL 1101, INTA 1200 e elective must be nanities) cial Science) ial Science) cience electives and
You must register for the	co-req first to avoid registration errors. Technical El	http://www.catalog.gatech.edu/students/	/ugrad/core/core.php
be NRE specific res	s may use 4 hours maximum of 4699/490 earch; it can be from the college of engine Class Sche are only offered one time pe	eering, science or computing.	
	are only onered one time po		cordingly!
			cordingly!
	Class Number	Semester Offered	cordingly!
		Semester Offered Spring	cordingly!
	Class Number NRE 2110	Semester Offered Spring Spring	cordingly!
	Class Number NRE 2110 NRE 3112	Semester Offered Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212	Semester Offered Spring Spring Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301	Semester Offered Spring Spring Spring Fall	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316	Semester Offered Spring Spring Spring Fall Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204	Semester Offered Spring Spring Spring Fall Spring Fall	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206	Semester Offered Spring Spring Spring Fall Spring Fall Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206 NRE 4214	Semester Offered Spring Spring Spring Fall Spring Fall Spring Fall Spring Fall	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4204 NRE 4206 NRE 4214 NRE 4232	Semester Offered Spring Spring Spring Fall Spring Fall Spring Fall Spring Fall Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206 NRE 4214 NRE 4232 NRE 4328	Semester Offered Spring Spring Spring Fall Spring Fall Spring Fall Spring Fall Spring Fall	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206 NRE 4214 NRE 4232 NRE 4328 COE 2001	Semester Offered Spring Spring Spring Fall Spring Fall Spring Fall Spring Fall Spring Fall Spring Fall Spring	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206 NRE 4214 NRE 4232 NRE 4328 COE 2001 COE 3001 ME 3340	Semester OfferedSpringSpringSpringFallSpringFallSpringFallSpringFallSpringFallEvery Semester *Every Semester *	cordingly!
	Class Number NRE 2110 NRE 3112 NRE 3212 NRE 3301 NRE 3316 NRE 4204 NRE 4206 NRE 4214 NRE 4232 NRE 4328 COE 2001 COE 3001 ME 3322	Semester OfferedSpringSpringSpringFallSpringFallSpringFallSpringFallSpringFallEvery Semester *Every Semester *	cordingly!

could cause cancellation during the summer semester.