

## NRE Co-op Plan - Option 1 (9 Semesters of School)

NRE Undergraduate Curriculum (2006-07 and 2007-08) \*\*

Freshman Fall	C	L	T	Freshman Spring	C	L	T	Freshman Summer			
MATH 1501 Calculus 1	4	0	4	MATH 1502 Calculus 2	4	0	4	Co-Op			
ENG 1101 English Comp 1	3	0	3	ENG 1102 English Comp 2	3	0	3				
CHEM 1310 Chemistry	3	3	4	PHYS 2211 Physics 1	3	3	4				
History <sup>5</sup>	3	0	3	CS 1371 Intro to Computing	3	0	3				
HPS 1040 Wellness	2	0	2	NRE 2110 Intro to NRE	2	0	2				
<b>Total</b>	<b>15</b>	<b>3</b>	<b>16</b>	<b>Total</b>	<b>15</b>	<b>3</b>	<b>16</b>				
Sophomore Fall				Sophomore Spring				Sophomore Summer			
MATH 2401 Calc 3	4	0	4	Co-Op				MATH 2403 Differential Equations	4	0	4
PHYS 2212 Physics 2	3	3	4					ECON Economics <sup>1</sup>	3	0	3
COE 2001 Statics	2	0	2					PHYS 2213 Intro to Modern Physics	3	0	3
MSE 2001 Engineering Materials	3	0	3					ECE 3710 Circuits & Electronics	2	0	2
<b>Total</b>	<b>12</b>	<b>3</b>	<b>13</b>					<b>Total</b>	<b>12</b>	<b>0</b>	<b>12</b>
Junior Fall	C	L	T	Junior Spring				Junior Summer			
NRE 3301 Radiation Physics	3	0	3	Co-Op				ME 3345 Heat Transfer	3	0	3
ME 3322 Thermo	3	0	3					COE 3001 Deformable Bodies	3	0	3
Social Science Elective	3	0	3					SS or HUM Elective <sup>3</sup>	3	0	3
ME 3340 Fluids	3	0	3					Humanities Elective	3	0	3
ECE 3741 Instrum. & Elec. Lab	0	3	1					<b>Total</b>	<b>12</b>	<b>0</b>	<b>12</b>
<b>Total</b>	<b>12</b>	<b>3</b>	<b>13</b>								
Senior 1 Fall				Senior 1 Spring	C	L	T	Senior 1 Summer			
Co-Op				NRE 3212 NRE Fundamentals	3	0	3	Co-Op			
				NRE 3316 Rad Protection Eng	3	0	3				
				NRE 3112 Radiation Detection	2	3	3				
				ISYE/Math 3770 Statistics	3	0	3				
				ECE 3025 Electromagnetics	3	0	3				
			<b>Total</b>	<b>14</b>	<b>3</b>	<b>15</b>					
Senior 2 Fall	C	L	T	Senior 2 Spring	C	L	T	Notes:			
NRE 4214 Reactor Engineering	3	0	3	ISYE 3025 Engineering Econ	1	0	1	<ol style="list-style-type: none"> <li>1. ECON 2100, ECON 2105 or ECON 2106. No credit given for (ECON 2100 &amp; ECON 2106) or (ECON 2100 &amp; ECON 2105)</li> <li>2. HTS 2084 (SS), PST 3105 (H), PST 3109 (H), PST 3127 (H), PST 4176 (H) or INTA 2030 (SS). (SS) is social science, (H) is humanities.</li> <li>3. If ethics is humanities (H), then social science is required. If ethics social science (SS) then humanities is required. See Note 2.</li> <li>4. Any 3000 or 4000 level class in the College of Engineering, Science or Computing (excluding PSYC and APPH) which do not duplicate any other classes used for the BSNRE.</li> <li>5. HIST 2111, HIST 2112, POL 1101, PUBP 3000, or INTA 1200</li> </ol> ** See 2007-08 NRE Curriculum Guide for specific classes and requirements. This is not the official curriculum guide.			
Tech Elective <sup>4</sup>	3	0	3	NRE 4232 NRE Design	1	9	4				
NRE 4328 Rad Sources & App	3	0	3	NRE 4206 Rad Physics Lab	1	3	2				
NRE 4204 Nuc Reactor Physics	4	0	4	Tech Elective <sup>4</sup>	3	0	3				
Engineering Ethics <sup>2</sup>	3	0	3	Tech Elective <sup>4</sup>	3	0	3				
<b>Total</b>	<b>16</b>	<b>0</b>	<b>16</b>	<b>Total</b>	<b>9</b>	<b>12</b>	<b>13</b>				

## NRE Co-op Plan - Option 2 (9 Semesters of School)

NRE Undergraduate Curriculum (2006-07 and 2007-08) \*\*

Freshman Fall	C	L	T	Freshman Spring	C	L	T	Freshman Summer			
MATH 1501 Calculus 1	4	0	4	MATH 1502 Calculus 2	4	0	4	MATH 2401 Calc 3	4	0	4
ENG 1101 English Comp 1	3	0	3	ENG 1102 English Comp 2	3	0	3	PHYS 2212 Physics 2	3	3	4
CHEM 1310 Chemistry	3	3	4	PHYS 2211 Physics 1	3	3	4	COE 2001 Statics	2	0	2
History <sup>5</sup>	3	0	3	CS 1371 Intro to Computing	3	0	3	Humanities Elective	3	0	3
HPS 1040 Wellness	2	0	2	NRE 2110 Intro to NRE	2	0	2				
<b>Total</b>	<b>15</b>	<b>3</b>	<b>16</b>	<b>Total</b>	<b>15</b>	<b>3</b>	<b>16</b>	<b>Total</b>	<b>12</b>	<b>3</b>	<b>13</b>
<b>Sophomore Fall</b>				<b>Sophomore Spring</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Sophomore Summer</b>			
Co-Op				MATH 2403 Differential Equations	4	0	4	Co-Op			
				PHYS 2213 Modern Physics	3	0	3				
				ECE 3710 Circuits & Electronics	2	0	2				
				NRE 3212 NRE Fundamentals	3	0	3				
				ECON Economics <sup>1</sup>	3	0	3				
				<b>Total</b>	<b>15</b>	<b>0</b>	<b>15</b>				
<b>Junior Fall</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Junior Spring</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Junior Summer</b>			
NRE 3301 Radiation Physics	3	0	3	Co-Op				COE 3001 Deformable Bodies	3	0	3
ME 3322 Thermo	3	0	3					ME 3345 Heat Transfer	3	0	3
ME 3340 Fluids	3	0	3					MSE 2001 Engineering Materials	3	0	3
Engineering Ethics <sup>2</sup>	3	0	3					SS or HUM Elective <sup>3</sup>	3	0	3
ECE 3741 Instrum. & Elec. Lab	0	3	1					<b>Total</b>	<b>12</b>	<b>0</b>	<b>12</b>
<b>Total</b>	<b>13</b>	<b>0</b>	<b>13</b>								
<b>Senior 1 Fall</b>				<b>Senior 1 Spring</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Senior 1 Summer</b>			
Co-Op				Social Science Elective	3	0	3	Co-Op			
				NRE 3316 Rad Protection Eng	3	0	3				
				NRE 3112 Radiation Detection	2	3	3				
				ISYE/Math 3770 Statistics	3	0	3				
				ECE 3025 Electromagnetics	3	0	3				
				<b>Total</b>	<b>14</b>	<b>3</b>	<b>15</b>				
<b>Senior 2 Fall</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Senior 2 Spring</b>	<b>C</b>	<b>L</b>	<b>T</b>	<b>Notes:</b>			
NRE 4214 Reactor Engineering	3	0	3	NRE 4232 NRE Design	1	9	4	1. ECON 2100, ECON 2105 or ECON 2106. No credit given for (ECON 2100 & ECON 2106) or (ECON 2100 & ECON 2105)			
Tech Elective <sup>4</sup>	3	0	3	NRE 4206 Rad Physics Lab	1	3	2	2. HTS 2084 (SS), PST 3105 (H), PST 3109 (H), PST 3127 (H), PST 4176 (H) or INTA 2030 (SS). (SS) is social science, (H) is humanities.			
NRE 4328 Rad Sources & App	3	0	3	Tech Elective <sup>4</sup>	3	0	3	3. If ethics is humanities (H), then social science is required. If ethics social science (SS) then humanities is required. See Note 2.			
NRE 4204 Nuc Reactor Physics	4	0	4	Tech Elective <sup>4</sup>	3	0	3	4. Any 3000 or 4000 level class in the College of Engineering, Science or Computing (excluding PSYC and APPH) which do no duplicate any other classes used for the BSNRE.			
ISYE 3025 Engineering Econ	1	0	1	<b>Total</b>	<b>8</b>	<b>12</b>	<b>12</b>	5. HIST 2111, HIST 2112, POL 1101, PUBP 3000, or INTA 1200			
<b>Total</b>	<b>14</b>	<b>0</b>	<b>14</b>					** See 2007-08 NRE Curriculum Guide for specific classes and requirements. This is not the official curriculum guide.			

**NRE Co-op Plan - Option 3 (9 Semesters of School)**  
**NRE Undergraduate Curriculum (2006-07 and 2007-08) \*\***

<b>Freshman Fall</b> MATH 1501 Calculus 1           4 0 4 ENG 1101 English Comp 1       3 0 3 CHEM 1310 Chemistry           3 3 4 History <sup>5</sup> 3 0 3 HPS 1040 Wellness               2 0 2 <b>Total 15 3 16</b>	<b>Freshman Spring</b> MATH 1502 Calculus 2           4 0 4 ENG 1102 English Comp 2       3 0 3 PHYS 2211 Physics 1            3 3 4 CS 1371 Intro to Computing   3 0 3 NRE 2110 Intro to NRE       2 0 2 <b>Total 15 3 16</b>	<b>Freshman Summer</b>  Off/Make-Up
<b>Sophomore Fall</b> MATH 2401 Calc 3               4 0 4 PHYS 2212 Physics 2            3 3 4 COE 2001 Statics                2 0 2 MSE 2001 Engineering Materials 3 0 3 <b>Total 12 3 13</b>	<b>Sophomore Spring</b> MATH 2403 Differential Equations 4 0 4 NRE 3212 Fundamentals of NRE   3 0 3 PHYS 2213 Modern Physics       3 0 3 ECE 3710 Circuits & Electronics   2 0 2 <b>Total 12 0 12</b>	<b>Sophomore Summer</b>  Co-Op
<b>Junior Fall</b> NRE 3301 Radiation Physics      3 0 3 ME 3322 Thermo                 3 0 3 Social Science Elective   3 0 3 ME 3340 Fluids                 3 0 3 ECE 3741 Instrum. & Elec. Lab   0 3 1 <b>Total 12 3 13</b>	<b>Junior Spring</b>  Co-Op	<b>Junior Summer</b>  ME 3345 Heat Transfer           3 0 3 COE 3001 Deformable Bodies     3 0 3 SS or HUM Elective <sup>3</sup> 3 0 3 Humanities Elective       3 0 3 <b>Total 12 0 12</b>
<b>Senior 1 Fall</b>  Co-Op	<b>Senior 1 Spring</b> ECON    Economics <sup>1</sup> 3 0 3 NRE 3316 Rad Protection Eng     3 0 3 NRE 3112 Radiation Detection    2 3 3 ISYE/Math 3770 Statistics         3 0 3 ECE 3025 Electromagnetics       3 0 3 <b>Total 14 3 15</b>	<b>Senior 1 Summer</b>  Co-Op
<b>Senior 2 Fall</b> NRE 4214 Reactor Engineering    3 0 3 Tech Elective <sup>4</sup> 3 0 3 NRE 4328 Rad Sources & App     3 0 3 NRE 4204 Nuc Reactor Physics    4 0 4 Engineering Ethics <sup>2</sup> 3 0 3 <b>Total 16 0 16</b>	<b>Senior 2 Spring</b> ISYE 3025 Engineering Econ       1 0 1 NRE 4232 NRE Design             1 9 4 NRE 4206 Rad Physics Lab        1 3 2 Tech Elective <sup>4</sup> 3 0 3 Tech Elective <sup>4</sup> 3 0 3 <b>Total 9 12 13</b>	<b>Notes:</b> 1. ECON 2100, ECON 2105 or ECON 2106. No credit given for (ECON 2100 & ECON 2106) or (ECON 2100 & ECON 2105) 2. HTS 2084 (SS), PST 3105 (H), PST 3109 (H), PST 3127 (H), PST 4176 (H) or INTA 2030 (SS). (SS) is social science, (H) is humanities. 3. If ethics is humanities (H), then social science is required. If ethics is social science (SS) then humanities is required. See Note 2. 4. Any 3000 or 4000 level class in the College of Engineering, Science or Computing (excluding PSYC and APPH) which do not duplicate any other classes used for the BSNRE. 5. HIST 2111, HIST 2112, POL 1101, PUBP 3000, or INTA 1200 ** See 2007-08 NRE Curriculum Guide for specific classes and requirements. This is not the official curriculum guide.