

NUCLEAR ENGINEERING

3Year STA-21

2009-2010 School Year

Nuclear Engineering (67 hrs)				CH	Grade
NE	114	2	Intro NE & RHP	ACE	
NE	115	2	Intro NE & RHP @	ACE	
NE	116	2	Intro NE & RHP	ACE	
NE	234	4	Nucl & Rad Physics I		
NE	235	4	Nucl & Rad Physics II		
NE	236	4	Nucl Rad Det/Inst III		
NE	407	1	Seminar		
NE	407	1	Seminar		
NE	407	1	Seminar		
NE	415	2	Nucl Rules & Reg		
NE	451	3	Neutronic Analysis I		
NE	452	3	Neutronic Analysis II		
NE	457	2	Nuclear Reactor Lab		
NE	467	4	Nucl Reac Therm Hyd		
NE	474	4	Nucl Engineering Design I		
NE	475	4	Nucl Engineering Design II		
NE	481	4	Radiation Protection		
NE	490	4	Rad Dosimetry		
NE	311	4	Intro to Therm Fluid Sciences		
NE	312	4	Thermodynamics		
NE	331	4	Introductory Fluid Mechanics		
NE	332	4	Heat Transfer		

Perspectives (15 hrs)			CH	Grade
Literature & Arts (3):				
Cultural Diversity (3):				
Social Processes & Institutions (3):				
Diff, Power & Discrimination (3):				
Western Culture (3):				

Skills (12 hrs)				CH	Grade
Writing I:	WR	121	English Composition @		
Writing II:	WR	327	Technical Writing		
Writing III/Speech:					
	COMM	111	Public Speaking @	ACE	
	or COMM	114	Arg & Crit Discourse @		
Fitness:	HHP	231	Lifetime Fitness for Health	ACE	

Engineering (21 hrs)				CH	Grade
ENGR	201	3	Elec Fundamentals [ACE-ET,EM]		
ENGR	211	3	Statics @		
ENGR	212	3	Dynamics @		
ENGR	213	3	Strength of Mat		
ENGR	321	3	Materials Science		
ENGR	390	3	Engr Economy		
ENGR	248	3	Solid Modeling		

Synthesis (6 hrs)			CH	Grade
Science, Technology & Society:				
Contemporary Global Issues:				

Biological Science w/Lab (4 hrs)			CH	Grade

Required Science (41 hrs)				CH	Grade
MTH	251	4	Diff Calculus @		
MTH	252	4	Int Calculus @		
MTH	254	4	Vector Calculus @		
MTH	256	4	Applied Diff Eq @		
MTH	306	4	Matrix & Pwr Series Math @		
ME	373	3	Numerical Meth in ME		
or MTH	351	3	Intro to Numerical Analysis		
PH	211	4	Gen Physics w/Calculus @		
PH	212	4	Gen Physics w/Calculus @		
PH	213	4	Gen Physics w/Calculus @		
CH	201	3	Chem for Engr Majors @		
CH	202	3	Chem for Engr Majors		

Free Electives (8 hrs)			CH	Grade

Other Requirements

- University _____ 2.00 Cumulative GPA
- _____ 2.00 GPA last 45 hours
- Department _____ No more than 9 hrs ROTC (free electives included in 180 total hours).
- College of _____
- Engineering _____ No S/U grades in required engineering, science, or restricted electives courses.
- _____ 2.00 overall GPA in all science and mathematics, combined.
- _____ 2.00 overall GPA in all engineering sciences with ENGR designator.
- _____ 2.25 overall GPA in all required PROFESSIONAL program courses.

Restricted Elective (6 hrs)				CH	Grade

NOTE: All courses designated @ must have grades of C (2.00) or better for entrance into Professional Engineering.

NOTE: Courses in [] are acceptable alternatives.

Nuclear Engineering Curriculum

NECP

3 Year Plan

Starting Summer 2009

Summer Year 1	Credits	Fall Year 1	Credits	Winter Year 1	Credits	Spring Year 2	Credits
MTH 251 @	4	MTH 252 @	4	MTH 254 @	4	MTH 256 @	4
CH 201 @	3	WR 121 @	3	NE 235	4	ENGR 211 @	3
CH 202	3	NE 234	4	Perspective	3	NE 236	4
Perspective	3	Free Elective	2	ENGR 201 @	3	PH 211 @	4
Term	13	Term	13	Term	14	Term	15
CUM	13	CUM	26	CUM	40	CUM	55
Summer Year 2	Credits	Fall Year 2	Credits	Winter Year 2	Credits	Spring Year 2	Credits
Free Elective	3	ENGR 212 @	3	PH 213 @	4	ENGR 213	3
Perspective	3	NE 311	4	NE 312	4	ENGR 321	3
Biological Science	4	PH 212 @	4	NE 331	4	NE 332	4
MTH 306 @	4	Free Elective	3	Perspective	3	ENGR 248	3
Term	14	Term	14	Term	15	Term	13
CUM	69	CUM	83	CUM	98	CUM	111
Summer Year 3	Credits	Fall Year 3	Credits	Winter Year 3	Credits	Spring Year 3	Credits
WR 327	3	NE 451	3	NE 452	3	NE 457	2
Restricted Elective	3	NE 467	4	NE 407	1	NE 435	4
MTH 351	3	NE 407	1	Synthesis	3	NE 407	1
Perspective	3	NE 481	4	NE 474	4	Synthesis	3
		NE 415	2	ENGR 390	3	NE 475	4
						Restricted Elective	3
Term	12	Term	14	Term	14	Term	17
CUM	123	CUM	137	CUM	151	CUM	168
ACE Courses							
NE 114		2 COMM 111/114	3				
NE 115		2 HHS 231/241	3				
NE 116		2 TOTAL	12			TOTAL CH	180
ADVISOR SIGNATURE						DATE:	