

Nuclear Engineering College of Engineering

code-BS-Nucl Code-XXX

131 Credits for Graduation

Students must have a graduation index of $2.0\,$

				eering.purd	lue.edu/NE/Academics/Ugra	adman2010.pdf)	
Re	quired NUCL Courses (41 credits)				
(3)	NUCL 20000- Introduc	tion to Nu	clear Engineering		(3) NUCL 40200 - Nucle	ear Power Systems	
(2)	NUCL 20500- Nuclear	Engineerii	ng Lab		(3) NUCL 32000 - Mate	rials for Nuclear Application	
(3)	NUCL 27300- Mechani	cs of Mater	ials		(3) NUCL 32500 - Nucl	ear Materials Lab I	
(0)	NUCL 29800- Nuclear I	Engineerin	g Sophomore semii	nar	(3) NUCL 35000 - Nucle	ear Thermal Hydraulics I	
(3)	NUCL 30000- Nuclear S	Structure a	nd Radiation intera	action	(3) NUCL 35100 - Nucle	ear Thermal Hydraulics II	
(3)	NUCL 30500- Nuclear I	Engineerin	g Lab II		(3) NUCL 35500 - Nucle	ear Thermal Hydraulics –Lab	
(3)	NUCL 31000- Introduc	_	-			ear Engineering Junior seminar	
(1)	NUCL 44900 - Senior I		-		(3) NUCL 45000 - Seni		
(0)	NUCL 49800 - Senior Se					<mark>0</mark> – Reactor theory/ <mark>Materials</mark>	
(3)	ME 20000 – Thermody				(3) ME 27000- Basic M	<u> </u>	
(3)	ME 274 – Basic Mechan				(3) ECE 20100 – Linea		
					(0) = 0 = 10 = 0.00		
]	NE technical Electives	(15 credi	its) (https://engineerin	ng.purdue.ed	u/NE/Academics/Undergrad/	/tech_electives.html)	
(3)	Technical Elective I					,	
(3)	Technical Elective II						
(3)	Technical Elective III						
(3)	Technical Elective IV						
(3)	Technical Elective V						
	recinited Elective v						
Ot	her Departmental /Pro	ogram Cou	ırse Requirement	s (48 cred	lits)		
(4/5)	MA 16500/16100 – Ca	lculus I (S	atisfies FYE require	ment)			
(4/5)	MA 16600/16200 - C	alculus II(Satisfies FYE requir	ement)			
(4)	CHM 11500 – General	Chemistry	I				
(4)	CHM 11600 – General	Chemistry	II				
(2)	ENGR 13100- Transforming Ideas to Innovation I (Satisfies FYE requirement)						
(2)	ENGR 13200 - Transforming Ideas to Innovation II (Satisfies FYE requirement)						
(4)	ENGR 13200 - Transforming ideas to innovation in Satisfies F1E requirement) ENGL 10600 - English Composition (Satisfies FYE requirement)						
(3)							
	COM 11400- First-Year General Education Elective((Satisfies FYE requirement)						
(4)	PHYS 17200- Physics I(Satisfies FYE requirement)						
(3)	CS 15900- Science Elective (Satisfies FYE requirement) MA 26100 – (satisfies Math and physics requirement)						
(4)	•			-			
(3)	MA 26500- (satisfies			-			
(3)	MA 26600 - (satisfies			-			
(4)	PHYS 24100 - (satisfi	es Math an	id physics requirem	ient)			
NOTE COL	/ 114:	l C	10 1:460	. r.l:	Th f th C .	Ed	
				ı Ea requii	rement. I nerefore the Ge	en Ed requirement can be	
	to be 18 + 3 credits = 21		-		L coso IOCO in Copie	al asion ass and O In Humanities)	
	G.EI		<u>leering.purdue.edu/NE/A</u> G.EIV			al sciences and 9 In Humanities)	
(3) _		· , _)		
(3) -	G.EII	` _	G.EV)		
(3) _	G.EIII	(3) _	G.E VI	(.)	()	
			:				
University	Cara Daguiromanta						
•	Core Requirements						
Human Cultures I				Science, Te	chnology & Society Selective		
	Behavioral/Social Science			Written Co	mmunication		
Information Liter	асу			Oral Comm	unication		
Science Selective				Quantitati	e Reasoning		
Science Selective							

Revised 2/2013 (effective Fall 2014)

Nuclear Engineering (Fusion)

https://engineering.purdue.edu/NE/Academics/Ugradman2010.pdf

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	MA 16500		4	MA 16600	MA 16500
4	CHM 11500		4	CHM 11600	CHM 11500
4	ENGL 10600		3	CS 15900	
2	ENGR 13100		2	ENGR 13200	ENGR 13100
4	PHYS 17200		3	COM 11400	
18			16		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
0	NUCL 29800		0	NUCL 29800	
3	General Elective I		3	MA 26500	MA 16200/16600
4	MA 26100	MA 16600/ 16200	3	NUCL 27300	ME 270
3	NUCL 20000	MA 16200, PHYS 17200	4	PHYS 24100	
3	ME 27000	PHYS 17200, ENGR 13200, MA 16200/16600	3	General Elective II	
3	ME 20000	MA 26100, ENGR 13200	3	ME 274	
			2	NUCL 205	NUCL 200
16			18		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
0	NUCL 39800	l	0	NUCL 39800	
3	NUCL 32500		3	NUCL 31000	MA 26600, NUCL 30000
3	NUCL 30000	MA 26100	3	NUCL 35100	NUCL 35000
3	NUCL 32000	NUCL 273	3	NUCL 35500	NUCL 35000, NUCL 35100
3	MA 26600		3	Math Elective (MA 300+)	
3	General Elective III		3	Technical Elective	
3	NUCL 35000	ME 20000, ME 27400	3	Technical Elective	
18			18		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Technical Elective		3	ECE 20100	
2	NUCL 30500	NUCL 20500	3	NUCL 45000	NUCL 31000, NUCL 40200, NUCL 44900
3	NUCL 40200	NUCL 35100	0	NUCL 49800	
1	NUCL 44900		3	Technical Elective	
3	General Elective IV		3	General Elective V	
0	NUCL 49800		3	General Elective VI	
3	NUCL 51000	NO FRESHMEN/ SOPHOMORE			
3	Technical Elective	NO FRESHMEN/ SOPHOMORE			
18			15		

131 semester credits required for Bachelor of Engineering degree.

Students must have a graduation index of 2.0

The student is ultimately responsible for knowing and completing all degree requirements.

Degree Works is knowledge source for specific requirements and completion