

## Nuclear Engineering College of Engineering

code-BS-Nucl Code-XXX 131 Credits for Graduation

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

Nuclear Er	ngineering Major Courses	s (53 credits) (https://eng	neering.purdue.edu/NE/Academics/U	gradman2010.ndf)			
	equired NUCL Courses (41		<u> </u>	<u> </u>			
(3)	-		(3) NUCL 40200 - Nu	clear Power Systems			
(2)	NUCL 20500- Nuclear En			terials for Nuclear Application			
(3)	NUCL 27300- Mechanics	_	(3) NUCL 32500 – Nu				
(0)		gineering Sophomore sem		clear Thermal Hydraulics I			
(3)		ructure and Radiation inte		clear Thermal Hydraulics II			
(3)	NUCL 30500- Nuclear Eng			clear Thermal Hydraulics –Lab			
(3)	NUCL 31000- Introduction		7 7	iclear Engineering Junior seminar			
			(3) NUCL 45000 – No				
(1)	NUCL 44900 – Senior Des NUCL 49800 - Senior Sem			100 Design 100 – Reactor theory/ <mark>Materials</mark>			
(0)	ME 20000 – Thermodyna		(3) ME 27000- Basic				
(3)	_		7 7				
(3)	ME 274 – Basic Mechanic	CS II	(3) ECE 20100 – Lin	ear Circuit analysis			
]	NE technical Electives - (1	15 credits) (https://enginee	ing.purdue.edu/NE/Academics/Undergra	ad/tech_electives.html)			
(3)	Technical Elective I			•			
(3)	Technical Elective II						
(3)	Technical Elective III						
(3)	Technical Elective IV						
(3)	Technical Elective V						
0+	har Danartmantal /Drog	mam Caumaa Daguinamaa	to (40 and ita)				
(4/5)	her Departmental /Progr	ram course Requiremen ulus I ( Satisfies FYE requir					
		ulus I ( Satisfies FYE requi culus II( Satisfies FYE requ					
(4/5)	CHM 11500 – General Ch		rementj				
(4) (4) (2) (2)		-					
(4)	CHM 11600 – General Chemistry II  FNGR 13100- Transforming Ideas to Innovation I (Satisfies FVF requirement)						
(2)	(2) ENGR 13100- Transforming Ideas to Innovation I (Satisfies FYE requirement)						
(2)							
(4)	(4) ENGL 10600 – English Composition (Satisfies FYE requirement)						
(4) (3) (4)	(3) COM 11400- First-Year General Education Elective((Satisfies FYE requirement)						
(4)	(4) PHYS 17200- Physics I( Satisfies FYE requirement)						
(3)	(3) CS 15900- Science Elective( Satisfies FYE requirement)						
(4)	MA 26100 - ( satisfies M	Nath and physics requirem	ent)				
(3)	MA 26500- ( satisfies M	lath and physics requirem	ent)				
(3)	MA 26600 - ( satisfies M	lath and physics requirem	ent)				
(4)	PHYS 24100 - ( satisfies	Math and physics require	ment)				
NOTE COL	#444° . 1 1	l (					
			en Ed requirement. Therefore the	Gen Ed requirement can be			
	to be $18 + 3$ credits = $21$ w	_		. 1 . 101 11 )			
	·			cial sciences and 9 In Humanities)			
(3)	G.EI	(3) <u>G.EIV</u>	_ ()	_ ()			
(3)	G.EII	(3) <u>G.EV</u>	_ ()	_ ()			
(3)	G.EIII	(3) <u>G.E VI</u>	_ ()	()			
University	Core Requirements						
Human Cultures	-		Science, Technology & Society Selective				
	Behavioral/Social Science		Written Communication				
Information Liter	•		Oral Communication				
Science Selective	• • •		Quantitative Reasoning				
Science Selective							

Revised 2/2013 (effective Fall 2015)

## **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	1	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