

(Effective Fall 2015)

## PURDUE Engineering Education/Interdisciplinary Engineering Program College of Engineering Multidisciplinary Engineering Major/General Engineering Concentration B

**BSE** 

**IDE-BSE** 

120 Credits for Graduation

Students need cumulative GPA of 2.0 to graduate.

Multidisciplinary Engineering Major Courses (45 credits of 200+ level engineering courses, of which at least 18 credits are 300+, and 6 credits 400+; MAX credits allowed in any one engineering discipline is 24)

		ademics/Undergrad/IDE/g	eneral)					
	red Engineering Core (1	,						
``	ECE 20100/Equivalent - Electrical Circuits  MF 27000+ MF 27400/AAF 20300/CF 29700 + 29800 - Statics and Dynamics*							
	ME 27000+ ME 27400/AAE 20300/ CE 29700 + 29800 – Statics and Dynamics* ME 30900/CE34000/AAE 33300/ CHE 37700 or equivalent – Fluid Mechanics							
(3) M	ME 30900/CE34000/AAE 33300/ CHE 37700 or equivalent – Fluid Mechanics							
(3) M	ME 20000/ABE 21000/ CHE 21100/MSE 35000 or equivalent- Thermodynamics							
(3/1) II	IE 34300 or IDE 48300 or equivalent – Engineering Economics							
	EPCS 41100 + EPCS 41200/IDE 48400 +IDE 48500 or equivalent – Capstone Design (Must be taken at Purdue-							
	Vest Lafayette)	,						
		sional Preparation(Must	be taken at Purdue-West Lafayette					
` ,	•		t be taken at Purdue-West Lafayett					
			edu/ENE/Academics/Undergrad/IDE/gener					
		which other courses ar						
(3) Eng	ineering Design- Must b	e approved by Dept. Eng.	Education e.g. ABE 33000, AAE 25	100, CE 45600, IE 38600, etc.				
			01, ECE 20700, CE 34300, ME 3090					
- ' '			ials – MSE 23000, NUCL 27300, CE	3 5				
	_	e/Elective courses (15-		,				
			<u>== 0.000,</u> IE 20100, CE 20300, NUCL 20000, e	etc				
			400, AAE 37200, BME 30400, CE 27					
	-		100, ABE 30500, ABE 32000, ABE 3					
	9)Engineering Electives	i (300+) course. ADE 301	100, ADE 30300, ADE 32000, ADE 3.	2500, GE 50500, etc.				
	Julighteering Liectives							
Other I	Departmental /Progra	m Course Requirement	s (47-54 credits)					
			ement & quantitative reasoning for	core)				
	,	. ,						
	MA 16600/16200 – Calculus II( satisfies FYE requirement & quantitative reasoning for core) CHM 11500 – General Chemistry I ( satisfies FYE requirement & science selective for core)							
	ENGR 13100- Transforming Ideas to Innovation I( satisfies FYE requirement) ENGR 13200 - Transforming Ideas to Innovation II( satisfies FYE requirement)							
		-		with a same and info literary for some				
			rement & general education requirement & w	vritten com ana injo literacy for core)				
		-	ent & oral communication for core)					
			science selective for core)					
		eience selective( satisfies i	FYE requirement)					
	(A 26100 – ( satisfies ma							
	(4/6) MA 26200 or MA 26500 + 26600 (satisfies math requirement)							
	(3/4) PHYS 24100/PHYS 27200/BIOL 11000/BIOL 23000 - ( choose one-sophomore science selective)							
(3) IE 23000/33000/IDE 36000/ECE 30200/CHE 32000/ ECE 30200 / STAT 35000/ STAT 51100 –(statistics selective								
	9	ring or basic science & ma						
, ,	(2-3) CGT 11000, 16300 or 16400- (required course in area)							
(1) Ha	ands-on(not computer)	Lab- 1 credit from: CHM	11600, THTR sound studio , AD, eng	gineering lab, etc.				
Λ,	roa Flactivas (0-18 cr):	chosen to satisfy studen	t's educational objectives.					
	-	-	106 and COM 114 listed above)					
(3) GE 1		(3) GE 3	(3) GE 5	( )				
`				()				
(3) <u>GE 2</u>	<u> </u>	(3) <u>GE 4</u>	(3) <u>GE 6</u>	()				
University Core	e Requirements							
-	-		Colored Technology C.C. Colored					
Human Cultures Human	-	GE 1	Science, Technology & Society Selective	GE 3				
	Human Cultures Behavioral/Social Science							
Information Literacy								
Science Selective CHM 11500 Quantitative Reasoning MA 16500 or 16100								
Science Selective		PHYS 17200						

## The student is ultimately responsible for knowing and completing all degree requirements. IDES/MDE web pages and Adviser are knowledge sources for specific requirements and completion

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## General engineering

https://engineering.purdue.edu/ENE/Academics/Undergrad/IDE/general

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4	MA 16500	ALEXS score of 75	4	MA 16600	MA 16500
4	CHM 11500	MA 16500	4	PHYS 17200	
4	ENGL 10600		3/4	CS 15900/CHM 11600	ENGR 13100/CHM 11500
2	ENGR 13100		2	ENGR 13200	ENGR 13100
			3	COM 11400	
14			16/17		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4	MA 26100	MA 16600	4	MA 26200	MA 26100
3	PHYS 24100/Sci Sel†	PHYS 17200	3	ME 27400 <del>†</del> 4	ME 27000
3	ME 27000 <del>†</del> 1	<i>MA 26100</i> PHYS 17200	3	ECE 20100	ENGR13100 PHYS17200 MA16200 <i>MA 26100</i>
3	ME 20000†2	<i>MA 261</i> 00 CHM11500 ENGR13200	1	ECE 20700	ECE 20100
3	AREA ELECTIVE†3		2	CGT 16300	
			2	AREA ELECTIVE†3	
16			15		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	ENGINEERING CLASS (intro)		3	IDE 36000 <mark>†8</mark>	<u> </u>
3	CE 34000 <del>†6</del>	CE 29800	1	ENGINEERING CLASS (follow-up) †5	
1	CE 34300	CE 34000	2	ENGINEERING CLASS (design) †9	
3	MSE 23000†7	CHM 11500/MA 16500	3	GENERAL EDUCATION 4 (300 level or non-intro)	
3	GENERAL EDUCATION 1		3	GENERAL EDUCATION 2	(Core
	(Core outcome H)			Outcome BSS)	•
1	IDE 30100	COM 114	3		
14			15	•	

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite	
3	ENGINEERING CLASS 400+		3	IDE 48500 <del>†</del> 10	IDE 483 IDE30100 MA	
	level (advanced) †5				26200	
3	GENERAL EDUCATION 3 (Core Outcome STS)		3	AREA MBS or other		
1	IDE 48300		3	AREA ELECTIVE		
1	IDE 48400		3	ENGINEERING CLASS 300+		
				level		
1	IDE 48700		3	GENERAL EDUCATION 6 (300+		
				level or non-intro)		
3	GENERAL EDUCATION 5					
3	AREA ELECTIVE		15			
15				Grand Total = 120		

\*Satisfies a University Core Requirement \*\*Satisfies a Non-departmental Major Course Requirement. †Multiple options are available – the most common is listed. †1 statics options, †2 thermodynamics options †3 area electives are chosen with aid of adviser to advance the student's educational objectives †4 dynamics options †5 engineering selectives are chosen with aid of adviser to advance the student's educational objectives †6 fluids option †7 materials options †8 statistics options †9 design selective †10 Capstone design selective

120 semester credits required for Bachelor of Science in Engineering degree.
2.0 Graduation GPA required for Bachelor of Science in Engineering degree.

The student is ultimately responsible for knowing and completing all degree requirements. Degree Works is knowledge source for specific requirements and completion

<sup>\*</sup>THE PLAN OF STUDY FROM 3rd SEMESTER ONWARDS SHOULD BE FILLED BY STUDENT AFTER CONSULTATION WITH ACADEMIC ADVISOR