

MECHANICAL ENGINEERING: SAMPLE SEMESTER STUDY PLAN

The following Plan of Study shows one *potential* list of courses that satisfies all requirements for a student pursuing the Engineering Science/Mechanical Engineering AS degree at Vincennes and the Mechanical Engineering BS degree at Purdue-West Lafayette. Individual plans of study may vary.

Vincennes University	<i>Semester 1</i>		<i>Semester 2</i>	
	MATH 118: Calculus/Analytic Geometry I	5	MATH 119: Calculus/Analytic Geometry II	5
	CHEM 105: General Chemistry I	3	CSCI 159: C Programming for Sci. & Eng.	3
	CHEM 105L: General Chemistry I Lab	2	PHYS 205: Physics for Sci/Engr. I	5
	*ENGL 112: Rhetoric and Research	3	COMM 143: Speech	3
	ENGR 131: Intro to Engineering	2	ENGR 105: Graphics	2
	CSCI 126: Intro to Comp Tools Sci Engr	2		
	TOTAL	17	TOTAL	18
	<i>Semester 3</i>		<i>Semester 4</i>	
	MATH 220: Intermediate Calculus	4	ENGR 270 Intro. Structural Mechanics	3
ENGR 205: Statics	3	ENGR 270L Intro. Structural Mech. Lab	1	
PHYS 206: Physics for Sci/Engr II	4	MATH 223: Differential Eq./Linear Algebra	4	
ENGR 217: Linear Circuits I	3	ENGR 206: Dynamics	3	
ENGR 217L: Elect. Meas. Techniques	1	ENGR 235: Thermodynamics	3	
Social Sci. Elective (ECON 201 recom.)	3	Humanities Elective	3	
TOTAL	18	TOTAL	17	
Purdue University – West Lafayette	<i>Semester 5</i>		<i>Semester 6</i>	
	ME 263 (L)	4	ME 309 (L)	4
	ME 365 (L)	3	ME 352 (L)	3
	MA 303	3	ME 375	3
	MSE 230	3	Tec. El. (TE-1)	3
	Gen. Ed. (GE-2)	3	Wrld/Cult El (WAC)	3
	TOTAL	16	TOTAL	16
	<i>Semester 7</i>		<i>Semester 8</i>	
	ME 315 (L)	4	ME 463 (L)	3
	Rest. El. (RE-1)	3	Rest. E. (RE-2)	3
Tec. El. (TE-2)	3	Tech. El. (TE-3)	3	
Free El. (free)	3	Tech. El. (TE-4)	3	
Gen. Ed. (GE-4)	3	Gen. Ed. El. (GE-4)	3	
TOTAL	16	TOTAL	15	

*ENGL 101 English Comp I and ENGL 102 English Comp II can be substituted for ENGL112

Notes: Purdue requires 32 credit hours at Purdue taken at the 300 level or higher.

MECHANICAL ENGINEERING: COURSE TRANSFER RELATIONSHIP:

Purdue University Courses

Vincennes University Courses

	Purdue University Courses		Vincennes University Courses		notes
	number and name	cr.	number and name	cr.	
Courses required for Purdue BSME program	CHM11500: General Chemistry, first semester	4	= CHEM 105 and CHEM 105L: General Chemistry I, with lab	5	CTL
	Science Selective	3	= CSCI 159 C Programming for Science/Engineer	3	
	CGT 16300: Intro to Graphics for Mfg.	2	= ENGR 105 Graphics	2	
	ENGR 13100: Ideas to Innovations I	2	= ENGR 131 Intro. to Engineering	2	
	COM 11400: Fundamentals of Speech	3	= COMM 143: Speech	3	PTD, CTL
	ENGL 10600: First-Year Composition	4	= ENGL 101 and 102: English Composition I + II	6	PTD
	OR:		OR:		
	ENGL 10800: Accel. 1st-Year Comp.	3	ENGL 112: Rhetoric and Research	3	
	ENGR 13200: Ideas to Innovation II	2	= CSCI 126: Introduction to Computer Tools for Scientists and Engineering	2	PTD
	* MA 16100: Plane Analytic Geometry + Calculus I	5	= MATH 118: Calculus / Analytic Geometry	5	PTD, CTL
	* MA 16200: Plane Analytic Geometry + Calculus II	5	= MATH 119: Calculus / Analytical Geometry II	5	PTD, CTL
	MA 26100: Multivariate Calculus	4	= MATH 220: Intermediate Calculus	4	PTD
	MA 26200: Linear Algebra and Differential Equations	4	= MATH 223: Differential Equations with Linear Algebra	4	PTD
	ME 20000: Thermodynamics I	3	= ENGR 235: Thermodynamics	3	PTD
	ME 27000: Basic Mechanics I	3	= ENGR 205: Statics	3	PTD
	ME 27400: Basic Mechanics II	3	= ENGR 206: Dynamics	3	PTD
	PHYS 17200: Modern Mechanics	4	= PHYS 205: Physics for Sci & Engr I	5	PTD, CTL
	ME 32300: Mech.of Materials		ENGR 270: Intro. Structural Mechanics	3	
			ENGR 207L: Intro.Structural Mechanics Lab	1	
	PHYS 24100:Elect & Optics		PHYS 206: Phys. for Scientists & Engineers II	4	PTD, CTL
	ECE 20100: Linear Circuit Analysis I	3	= ENGR 217: Linear Circuits I	3	PTD
			ENGR 217 Linear Circuits I Lab	1	
	ECON 25100: Microeconomics	3	= ECON 201: Microeconomics	3	PTD, CTL
	ECON 25200: Macroeconomics	3	= ECON 202: Macroeconomics	3	PTD, CTL
	Technical Elective for BSME major (at least 5 credits required for BSME)		= all courses in ENGR not listed above, also all courses 100+ level in AGRI, BIOL, CHEM, EARTH, PHYS		

* = Credit toward graduation with Purdue BSME is limited to 8 credits for the first two semesters of calculus.

PTD = Purdue Transfer Database; CTL = Indiana Core Transfer Library

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