

**Recommended Plan of Study**  
**Industrial Engineering, 2+2 Dual-Enrollment Option**

**INDUSTRIAL 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/Industrial Engineering AS degree at Vincennes and the Industrial 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		
	CSCI 126: Intro to Comp Tools Sci Engr	2		
	<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>16</b>
	<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 (TE-1) -OR-		
Social Sci. Elective (ECON 201 recom.)	3	ACCT 201: Financial Accounting	3	
		ENGR 235: Thermodynamics	3	
		Humanities Elective	3	
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>17</b>	
Purdue University – West Lafayette	<i>Semester 5</i>		<i>Semester 6</i>	
	IE 20000: Ind Engr Seminar	0	IE 33000: Prob & Stat in Engr II	3
	IE 23000: Prob & Stat in Engr I	3	IE 33200: Computing in Industrial Engineering	3
	IE 33500: Operations Research - Optimization	3	IE 33600: Op. Research Stochastic Models	3
	IE 34300: Engineering Economics	3	IE 38300: Integrated Production Systems I	3
	IE 37000: Manufacturing Processes I	3	Gen. Ed. (GE-1)	3
	MA 30300 or ME 35100	3	Gen. Ed. (GE-2)	
	<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>18</b>
	<i>Semester 7</i>		<i>Semester 8</i>	
	IE 47400: Industrial Control Systems	3	IE 43100: Industrial Engineering Design	3
IE 38600: Work Analysis and Design I	3	IE 48600: Work Analysis and Design II	3	
Tech. El. (TE-2)	3	IE Tech. El. (IE TE-1)	3	
Tech. El. (TE-3)	3	IE Tech. El. (IE TE-2)	3	
Gen. Ed. (GE-3)	3	Gen. Ed. El. (GE-4)	3	
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>15</b>	

\*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. MA 30300/35100 is required for the BSIE and should be taken at Purdue. Economics Elective for the BSIE must be in micro/macro-economics or higher.

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**INDUSTRIAL ENGINEERING: COURSE TRANSFER RELATIONSHIP:**

Purdue University Courses		Vincennes University Courses		notes
number and name	cr.	number and name	cr.	
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	
ENGR 13100: Ideas to Innovations I	2	= ENGR 131 Intro. to Engineering	2	
COM 11400: Fundamentals of Speech	3	= COMM 143: Speech	3	
ENGL 10600: First-Year Composition	4	= ENGL 101 <b>and</b> 102: English Composition I + II	6	PTD, CTL
<b><u>OR:</u></b>		<b><u>OR:</u></b>		
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
* 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, CTL
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		= ENGR 205: Statics		
<b><u>OR:</u></b>	3	<b><u>OR:</u></b>	3	PTD
MGMT 20000: Intro to Accounting		= ACCT 201: Financial Accounting		
** 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
*** ME 32300: Mech.of Materials		= ENGR 270: Intro. Structural Mechanics	3	PTD, CTL
		= ENGR 207L: Intro.Structural Mechanics Lab	1	
PHYS 24100:Elect & Optics		= PHYS 206: Phys. for Scientists & Engineers II	4	PTD
ECE 20100: Linear Circuit Analysis I	3	= ENGR 217: Linear Circuits I	3	PTD, CTL
ECON 25100: Microeconomics	3	= ECON 201: Microeconomics	3	PTD
ECON 25200: Macroeconomics	3	= ECON 202: Macroeconomics	3	PTD, CTL

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

\*\* = Used as a Technical Elective towards the Purdue BSIE degree.

\*\*\* = Credit used in place of NUCL 27300 to satisfy the Purdue BSIE degree requirement.

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

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