

## Recommended Plan of Study

### Environmental & Natural Resource Engineering, BSENRE 2+2 Dual-Enrollment Option

#### ENVIRONMENTAL & NATURAL RESOURCES 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 AS degree at Vincennes and the Environmental and Natural Resource Engineering BS degree at Purdue-West Lafayette. Individual plans of study may vary.

Vincennes University	<i>Semester 1</i>		<i>Semester 2</i>	
	CHEM 105: General Chemistry I	3	CHEM 106: General Chemistry II	3
	CHEM 105L: General Chemistry I Lab	2	CHEM 106L: General Chemistry II Lab	2
	*ENGL 112: Rhetoric and Research	3	COMM 143: Speech	3
	ENGR 131: Intro to Engineering	2	MATH 119: Calculus/Analytic Geometry II	5
	MATH 118: Calculus/Analytic Geometry I	5	PHYS 205: Physics for Sci/Engr. I	5
	CSCI 126: Intro to Comp Tools Sci & Engr	2		
	<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>18</b>
	<i>Semester 3</i>		<i>Semester 4</i>	
	AGRI 204: Soil Science	3	ENGR 235: Thermodynamics	3
AGRI 290: Ag Eng. Seminar**	1	MATH 223: Differential Eq/Linear Algebra	4	
MATH 220: Intermediate Calculus	4	ENGR 206: Dynamics	3	
ENGR 205: Statics	3	ECON 201 or ECON 202	3	
PHYS 206: Physics for Sci/Engr II	4	Humanities Elective	3	
Social Science Elective	3			
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>16</b>	
Purdue University – West Lafayette	<i>Semester 5</i>		<i>Semester 6</i>	
	ABE 30500: Phys. Properties of Bio Materials	3	CE 31400: Design of Electronic Systems	3
	ABE 32500: Soil and Water Resource Engr.	3	ABE 33000: Design of Machine Components	3
	CE 34000 & CE 34300: Hydraulics and lab		ENRE Selective	3
	OR ME 30900: Fluid Mechanics	4	BIOL Science Selective	4
	ABE 20500: Computation for Engr. Systems	3	Agricultural Selective	3
	BIOL Selective	4		
	<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>16</b>
Purdue University – West Lafayette	<i>Semester 7</i>		<i>Semester 8</i>	
	ABE 45000: Finite Ele. Meth. in Design Opt.	3	ABE 48600: Agricultural Engineering Design	3
	ABE 48400: Project Plan. & Man.	1	Engineering Technical Selective	3
	ABE 49000: Prof. Practice in Ag & Biol. Engr	1	Humanities or Social Sci. Selective	3
	ENRE Technical Selective	3	Humanities or Soc. Sci. Selective (300+ level)	3
	Engineering Technical Selective	3	Elective	3
	Written and Oral Communication Selective	3		
	Agriculture Selective	3		
<b>TOTAL</b>	<b>17</b>	<b>TOTAL</b>	<b>15</b>	

\*ENGL101 English Comp I and ENGL102 English Comp II can be substituted for ENGL112 at VU.

\*\* Course to be placed in curriculum for fall 2014

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

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#### ENVIRONMENTAL & NATURAL RESOURCES ENGINEERING: COURSE TRANSFER RELATIONSHIP:

	Purdue University Courses		=	Vincennes University Courses		notes
	number and name	cr.		number and name	cr.	
Courses required for Purdue BSEEE program	CHM11500: General Chemistry, first semester	4		CHEM 105 and CHEM 105L: General Chemistry I, with lab	5	CTL
	CHM 11600: General Chemistry, second sem.	4		CHEM 106 and CHEM 106L: General Chemistry II, with lab	5	CTL
	AGRY 25500: Soil Science	3		AGRI 204: Soil Science	3	PTD
	ABE 29000: Sophomore Seminar	1		AGRI 100: Ag Eng. Seminar	1	
	COM 11400: Fundamentals of Speech	3		SPCH 143: Speech	3	CHE
	ENGL 10600: First-Year Composition	4		ENGL 101 and 102: English Composition I + II	6	PTD
	ENGL 10800: Accelerated First-Year Comp	3		ENGL 112: Rhetoric and Research	3	PTD
	ENGR 13100: Ideas to Innovation I	2		ENGR 131: Intro to Engineering	2	PTD
	ENGR 13200: Ideas to Innovation II	2		CSCI 126: Intro to Comp Tools Sci & Engr	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 27000: Basic Mechanics I	3		ENGR 205: Statics	3	PTD
	ME 27400: Basic Mechanics II	3		ENGR 206: Dynamics	3	PTD
	ABE 21000: Thermo Prin Engr & Bio	3		ENGR 235: Thermodynamics	3	
	PHYS 17200: Modern Mechanics	4		PHYS 205: Physics for Science and Engineering I	5	PTD, CTL
	PHYS 24100: Electricity and Optics	3		PHYS 206: Physics for Science and Engineering II	4	PTD, CTL
	ECON 25100: Microeconomics	3		ECON 201: Microeconomics	3	PTD, CTL
	ECON 25200: Macroeconomics	3		ECON 202: Macroeconomics	3	PTD, CTL

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