

# Ouachita Baptist University - University of Arkansas

## Industrial Engineering Transfer Guide

Effective Fall 2017

Ouachita Baptist University		University of Arkansas					
OBU #	Title	Hours	U of A #	Title	Hours		
<b>Core Requirements</b>							
<b>General Education Curriculum</b>	<b>Math prerequisites:</b> While not part of engineering degree requirements, algebra and trigonometry skills are critical to success in Calculus. Students should follow math placement testing and advising recommendations at their initial school.						
	<b>Common</b>						
	CORE 1002	OBU Connections	2		<b>Non-Transferable</b>		
	CORE 1023	Contemporary World	3	⇒ HUMN 199T	Humanities Transfer Credit (Elective)	3	
	CORE 1043	Composition I	3	⇒ ENGL 1013	Composition I	3	
	CORE 1113	Survey of the Bible	3	⇒ HUMN 199T	Humanities Transfer Credit (Elective)	3	
	CORE 1123	Interpreting the Bible	3		<b>Non-Transferable</b>		
	CORE 2213	Wester Civilization in Global Context	3	⇒ HIST 1113	Institutions & Ideas of World Civilizations I	3	
	CORE 2233	World Literature	3	⇒ WLIT 1113	World Literature I	3	
	<b>Flex</b>						
	COMM 1003	Fundamentals of Public Speaking	3	⇒ COMM 1313	Public Speaking	3	
	FINA 3xx3	Fine Arts	3	⇒ **** 1003	Fine Arts Transfer Credit (category a)	3	
	PSCI 2013	American National Government	3	⇒ PLSC 2003	American National Government	3	
		Language	6	⇒ HUMN 199T	Humanities Transfer Credit (Elective)	6	
	KIN 1002	Wellness	2	⇒ PBHL 199T	PBHL Transfer Course	2	
<b>Experiential</b>							
FINA 4011	Arts Engagement Series	1		<b>Non-Transferable</b>			
<b>Total Hours</b>		<b>38</b>			<b>32</b>		
<b>Additional Degree Requirements **</b>							
<b>Out-of-Department Curriculum</b>	MATH 2014	Calculus I	4	⇒ MATH 2554	Calculus I	4	
	MATH 2024	Calculus II	4	⇒ MATH 2564	Calculus II	4	
	MATH 3034	Calculus III	4	⇒ MATH 2574	Calculus III	4	
	MATH 3043	Differential Equations	3	⇒ MATH 2584	Differential Equations	4	
	MATH 3093	Linear Algebra	3	⇒ MATH 3083	Linear Algebra (Technical Elective)	3	
	CHEM 1004	General Chemistry I	4	⇒ CHEM 1103/1101	University Chemistry I	4	
	CHEM 1014	General Chemistry II	4	⇒ CHEM 1123/1121	University Chemistry II	4	
	ECON 2013	Principles of Macroeconomics	3	⇒ ECON 2013	Principles of Macroeconomics	3	
					Social Science Course**	3	
	CORE 1053	Composition II	3	⇒ ENGL 1023	Composition II	3	
CSCI 1044	Computer Programming I	4	⇐ CSCE 2004	Programming Foundations I	4		
<b>Total Hours</b>		<b>36</b>			<b>39</b>		
<b>Engineering Physics/Industrial Engineering Degree Requirements</b>							
<b>Engineering Physics / Industrial Engineering Departments Curriculum</b>	<b>Courses Likely to be Taken At Ouachita</b>			<b>Courses Meeting INEG Requirements at Arkansas</b>			
	PHYS 1121	Intro to Physics & Engineering	1		<b>Non-Transferable</b>		
	PHYS 2054	University Physics I	4	⇒ PHYS 2054	University Physics I	4	
	PHYS 2064	University Physics II	4	⇒ PHYS 2074	University Physics II	4	
	PHYS 3004	Intro to Modern Physics	4	⇒ PHYS 399T	Physics Transfer Credit (Elective)	4	
	PHYS 2123	Statics	3	⇒ MEEG 2003	Statics	3	
	PHYS 1112	Engineering Graphics	2	⇒ GNEG 199T	GNEG Transfer Credit (Elective)	2	
	PHYS 4601	Senior Capstone Experience	1		<b>Non-Transferable</b>		
	<b>Courses Needing Transfer Equivalent from Arkansas</b>			<b>Courses Taken At Arkansas</b>			
	PHYS 2133	Dynamics	20	⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS 3034	Electricity and Magnetism		⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS 3123	Electric Circuits		⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS 3131	Electric Circuits Lab		⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS 4003	Mechanics		⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS XXX3	Course in Physics (Jr/Sr)		⇐	Equivalent Course Credit Assigned from INEG List Below		
	PHYS XXX3	Course in Physics (Jr/Sr)		⇐	Equivalent Course Credit Assigned from INEG List Below		
				<b>INEG Required Courses</b>			
					GNEG 1111/1121	Introduction to Engineering I (Exempt*)	
					ELEG 3903	Electric Circuits and Machines	3
					MEEG ***3	MEEG Menu Elective	3
					CHEG/MEEG ***3	CHEG/MEEG Menu Elective	3
	<b>NOTES</b>				INEG 2001	Industrial Engineering Seminar	1
	7 hours of Elective Credits will be needed to graduate from Ouachita. These elective hours can come from INEG or other courses.		7		INEG 2103	Introduction to Industrial Engineering	3
					INEG 2403	Industrial Cost Analysis	3
					INEG 2313	Applied Prob and Stat for Engineers I	3
				INEG 2333	Applied Prob and Stat for Engineers II	3	
				INEG 2413	Engineering Economic Analysis	3	
				INEG 2513	Manufacturing Design	3	
				INEG 3623	Simulation	3	
				INEG 3613	Introduction to Operations Research	3	
				INEG 3713	Methods and Standards	3	
				INEG 4433	Systems Engineering and Management	3	
				INEG 4553	Production Planning and Control	3	
				INEG 4723	Ergonomics	3	
				INEG 4904	Industrial Engineering Design	4	
				INEG ***3	INEG Technical Electives	12	
				INEG ***3	Technical Electives (1 could be Linear Alg.)	6	
ECON 2023	Principles of Microeconomics	3					
PSYC 1013	General Psychology	3					
SOCI 1030	General Sociology	3					
<b>Total Hours</b>		<b>46</b>				<b>85</b>	
<b>Total Projected Hours at Graduation</b>		<b>120</b>				<b>156</b>	