

Ouachita Baptist University

B.S. Degree: Engineering Physics

Effective Fall 2016

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	OBU #	Title	Hours		OBU #	Title	Hours
Core Requirements				Physics Requirements			
	Common				Physics		
	CORE 1002	OBU Connections	2		PHYS 1121	Intro to Physics & Engineering	1
	CORE 1023	Contemporary World	3		PHYS 2054	University Physics I	4
	CORE 1043	Composition I	3		PHYS 2064	University Physics II	4
	CORE 1113	Survey of the Bible	3		PHYS 2123	Statics	3
	CORE 1123	Interpreting the Bible	3		PHYS 2133	Dynamics	3
	CORE 2213	Western Civilization in Global Context	3		PHYS 3004	Intro to Modern Physics	4
	CORE 2233	World Literature	3		PHYS 3034	Electricity & Magnetism I	4
	Flex				PHYS 3123	Electric Circuits	3
	COMM 1003	Fundamentals of Public Speaking†	3		PHYS 3131	Electric Circuits Lab	1
	FINA 3xx3	Fine Arts	3		PHYS 4003	Classical Mechanics I	3
	PSCI 2013	American National Government†	3		PHYS 4601	Senior Capstone Experience	1
		Foreign/Biblical Language	6		PHYS XXXX	Course in Physics	7
	KIN 1002	Wellness	2		PHYS XXXX	Course in Physics	
	Experiential				PHYS 1112**	Engineering Graphics	
	FINA 4011	Arts Engagement Series	1		(**This course strongly recommended)		
		Total Hours	38			Total Hours	38
Additional Degree Requirements				Comments			
Out-of-Department Curriculum	MATH 2014	Calculus I	4	A Minor must be completed in Chemistry, Biology, Math or Computer Science. Enough Math hours are required to meet the Minor requirement, but students may use elective or additional hours to complete a second Minor in another area if they so desire.			
	MATH 2024	Calculus II	4				
	MATH 3034	Calculus III	4				
	MATH 3043	Differential Equations	3				
	MATH 3063	Probability & Statistics†	3				
	CHEM 1004	General Chemistry I	4				
	CHEM 1014	General Chemistry II	4	* Chapel Credits = 7 or 1 per semester for transfer students * GPA (overall, OBU, major, and minor) = 2.0 * At least 24 hours with grades of C or higher in the major * Residency: 30 of last 36 hours must be taken at OBU * Jr/Sr Hours: At least 39 total, 12+ in the major and 6+ in the minor † Recommend course from a menu of choices			
	ENGL 3013	Technical & Professional Writing†	3				
	CSCI 1044	Computer Programming I	4				
		Total Hours	33				
Sample Four Year Degree Plan (Even Year Entry)							
Fall Even (Freshman) - Semester 1				Spring Odd (Freshman) - Semester 2			
	PHYS 1121	Intro to Physics & Engineering	1		MATH 2014	Calculus I	4
	CORE 1002	OBU Connections	2		PHYS 1112	Engineering Graphics	2
	CORE 1043	Composition I	3		CORE 1023	Contemporary World	3
	CORE 1113	Survey of the Bible	3		CORE 1123	Interpreting the Bible	3
	CHEM 1004	General Chemistry I	4		CHEM 1014	General Chemistry II	4
	MATH 1034	Pre-Calculus (May not be required)	4				
		Total Hours	17			Total Hours	16
Fall Odd (Sophomore) - Semester 3				Spring Even (Sophomore) - Semester 4			
	MATH 2024	Calculus II	4		MATH 3034	Calculus III	4
	PHYS 2054	University Physics I	4		PHYS 2064	University Physics II	4
	CSCI 1044	Computer Programming I	4		MATH 3043	Differential Equations	3
	KIN 1002	Wellness	2		PHYS 2123	Statics	3
		Foreign/Biblical Language	3			Foreign/Biblical Language	3
		Total Hours	17			Total Hours	17
Fall Even (Junior) - Semester 5				Spring Odd (Junior) - Semester 6			
	PHYS 3004	Intro to Modern Physics	4		PHYS 4043	Intro to Quantum Mechanics	3
	PHYS 4003	Classical Mechanics I	3		PHYS 4053	Math Physics	3
	PHYS 4023	Thermodynamics	3		CORE 2233	World Literature	3
	ENGL 3013	Technical & Professional Writing	3		COMM 1003	Fundamentals of Public Speaking	3
						Elective	3
		Total Hours	13			Total Hours	15
Fall Odd (Senior) - Semester 7				Spring Even (Senior) - Semester 8			
	PHYS 4601	Senior Capstone Experience	1		PHYS 3034	Electricity & Magnetism I	4
	PHYS 2133	Dynamics	3		MATH 3063	Probability & Statistics	3
	PHYS 3123	Electrical Circuits	3		FINA 3xx3	Fine Arts	3
	PHYS 3131	Electrical Circuits Lab	1		FINA 4011	Arts Engagement Series	1
	CORE 2213	Western Civilization in Global Context	3			Elective	3
	PSCI 2013	American National Government	3				
		Total Hours	14			Total Hours	14
Total Projected Hours at Graduation							123