

Ouachita Baptist University

B.S. Degree: Engineering Physics (3 Year Track)

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
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	* Chapel Credits = 7 or 1 per semester for transfer students * GPA (overall, OBU, major, and minor) = 2.0		
	CHEM 1014	General Chemistry II	4			
	ENGL 3013	Technical & Professional Writing†	3	* 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		
	CSCI 1044	Computer Programming I	4			
			Total Hours	33		
Sample Three Year Degree Plan (Odd Year Entry)						
Fall Odd (Freshman) - Semester 1				Spring Even (Freshman) - Semester 2		
PHYS 1121	Intro to Physics & Engineering	1		MATH 3034	Calculus III	4
CORE 1002	OBU Connections	2		PHYS 2064	University Physics II	4
MATH 2024	Calculus II	4		MATH 3043	Differential Equations	3
PHYS 2054	University Physics I	4		PHYS 2123	Statics	3
CSCI 1044	Computer Programming I	4		CORE 1123	Interpreting the Bible	3
CORE 1113	Survey of the Bible	3				
		Total Hours	18			Total Hours
Fall Even (Sophomore) - Semester 3				Spring Odd (Sophomore) - Semester 4		
PHYS 3004	Intro to Modern Physics	4		PHYS 4043	Intro to Quantum Mechanics	3
PHYS 4003	Classical Mechanics I	3		PHYS 1112	Engineering Graphics	2
PHYS 4023	Thermodynamics	3		CORE 2233	World Literature	3
ENGL 3013	Technical & Professional Writing	3		CORE 1023	Contemporary World	3
CHEM 1004	General Chemistry I	4		CHEM 1014	General Chemistry II	4
PHYS 4061	Intro to Physics Research	1		KIN 1002	Wellness	2
		Total Hours	18			Total Hours
Fall Odd (Junior) - Semester 5				Spring Even (Junior) - Semester 6		
PHYS 4601	Senior Capstone Experience	1		PHYS 3034	Electricity & Magnetism I	4
PHYS 3123	Electrical Circuits	3		MATH 3063	Probability & Statistics	3
PHYS 3131	Electrical Circuits Lab	1		FINA 3xx3	Fine Arts	3
CORE 2213	Western Civilization in Global Context	3		COMM 1003	Fundamentals of Public Speaking	3
PSCI 2013	American National Government	3		FINA 4011	Arts Engagement Series	1
PHYS 2133	Dynamics	3			Elective	3
	Elective	3				
		Total Hours	17			Total Hours
An incoming student MUST have college credit for the following courses prior to entering OBU as a Freshman:						
CORE 2213	Wester Civilization in Global Context	3				
CORE 1043	Composition I	3				
MATH 2014	Calculus I	4				
An incoming student WILL need to obtain college credit for 6 hrs of foreign language prior to attending OBU or during summer terms.						
	Foreign/Biblical Language	6				
		Total Incoming/Additional Hours Required	16			Total Projected Hours at Graduation
				120		