

# Ouachita Baptist University

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

Effective Fall 2016

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	OBU #	Title	Hours		OBU #	Title	Hours
<b>Core Requirements</b>				<b>Physics Requirements</b>			
	<b>Common</b>				<b>Physics</b>		
	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 3004	Intro to Modern Physics	4
	CORE 1123	Interpreting the Bible	3		PHYS 3034	Electricity & Magnetism I	4
	CORE 2213	Western Civilization in Global Context	3		PHYS 4003	Classical Mechanics I	3
	CORE 2233	World Literature	3		PHYS 4043	Intro to Quantum Mechanics	3
	<b>Flex</b>				PHYS 4061	Intro to Physics Research	1
	COMM 1003	Fundamentals of Public Speaking†	3		PHYS 4601	Senior Capstone Experience	1
	FINA 3xx3	Fine Arts	3		PHYS XXXX	Course in Physics	11
	PSCI 2013	American National Government†	3		PHYS XXXX	Course in Physics	
		Foreign/Biblical Language	6		PHYS 4023**	Thermodynamics	
	KIN 1002	Wellness	2		PHYS 4053**	Math Physics	
	<b>Experiential</b>				(**These courses strongly recommended)		
	FINA 4011	Arts Engagement Series	1				
		<b>Total Hours</b>	<b>38</b>			<b>Total Hours</b>	<b>36</b>
<b>Additional Degree Requirements</b>				<b>Comments</b>			
<b>Out-of-Department Curriculum</b>	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 / BIOL 1014	General Chemistry I <i>or</i> General Biology (Zoology)	4				
	CHEM 1014 / BIOL 1024	General Chemistry II <i>or</i> General Biology (Botany)	4			* Chapel Credits = 7 or 1 per semester for transfer students	
	ENGL 3013	Technical & Professional Writing†	3			* GPA (overall, OBU, major, and minor) = 2.0	
CSCI 1044	Computer Programming I	4			* At least 24 hours with grades of C or higher in the major		
	<b>Total Hours</b>	<b>33</b>			* Residency: 30 of last 36 hours must be taken at OBU		
					* <b>Jr/Sr Hours:</b> At least 39 total, 12+ in the major and 6+ in the minor		
					† Recommend course from a menu of choices		
<b>Sample Three Year Degree Plan (Even Year Entry)</b>							
<b>Fall Odd (Freshman) - Semester 1</b>				<b>Spring Even (Freshman) - Semester 2</b>			
	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				
	<b>Total Hours</b>	<b>18</b>			<b>Total Hours</b>	<b>17</b>	
<b>Fall Even (Sophomore) - Semester 3</b>				<b>Spring Odd (Sophomore) - Semester 4</b>			
	PHYS 3004	Intro to Modern Physics	4		PHYS 3034	Electricity & Magnetism I	4
	PHYS 3123	Electrical Circuits	3		PHYS 4643	Medical Physics	3
	PHYS 3131	Electrical Circuits Lab	1		MATH 3063	Probability & Statistics	3
	ENGL 3013	Technical & Professional Writing	3		CORE 1023	Contemporary World	3
	BIOL 1014	General Biology (Zoology)	4		BIOL 1024	General Biology (Botany)	4
	PHYS 4061	Intro to Physics Research	1		PHYS 1112	Engineering Graphics	2
	KIN 1002	Wellness	2				
	<b>Total Hours</b>	<b>18</b>			<b>Total Hours</b>	<b>17</b>	
<b>Fall Odd (Junior) - Semester 5</b>				<b>Spring Even (Junior) - Semester 6</b>			
	PHYS 4601	Senior Capstone Experience	1		PHYS 4043	Intro to Quantum Mechanics	3
	PHYS 4003	Classical Mechanics I	3		PHYS 4053	Math Physics	3
	PHYS 4023	Thermodynamics	3		PHYS 1112	Engineering Graphics	2
	CORE 2213	Western Civilization in Global Context	3		CORE 2233	World Literature	3
	PSCI 2013	American National Government	3		FINA 3xx3	Fine Arts	3
		Elective	3		COMM 1003	Fundamentals of Public Speaking	3
					FINA 4011	Arts Engagement Series	1
	<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>18</b>	
An incoming student <b>MUST</b> 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 <b>WILL</b> need to obtain college credit for 6 hrs of foreign language prior to attending OBU or during summer terms.							
		Foreign/Biblical Language	6				
		<b>Total Incoming/Additional Hours Required</b>	<b>16</b>			<b>Total Projected Hours at Graduation</b>	<b>120</b>