

# Ouachita Baptist University

## B.S. Degree: Physics

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				
	ENGL 3013	Technical & Professional Writing†	3				
CSCI 1044	Computer Programming I	4					
		<b>Total Hours</b>	<b>33</b>				
<b>Sample Four Year Degree Plan (Even Year Entry)</b>							
<b>Fall Even (Freshman) - Semester 1</b>				<b>Spring Odd (Freshman) - Semester 2</b>			
	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		BIOL 1024	General Biology (Botany)	4
	MATH 1034	Pre-Calculus (May not be required)	4				
		<b>Total Hours</b>	<b>17</b>			<b>Total Hours</b>	<b>16</b>
<b>Fall Odd (Sophomore) - Semester 3</b>				<b>Spring Even (Sophomore) - Semester 4</b>			
	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
		<b>Total Hours</b>	<b>17</b>			<b>Total Hours</b>	<b>17</b>
<b>Fall Even (Junior) - Semester 5</b>				<b>Spring Odd (Junior) - Semester 6</b>			
	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		PSCI 2013	American National Government	3
	COMM 1003	Fundamentals of Public Speaking	3			Elective	3
		<b>Total Hours</b>	<b>16</b>			<b>Total Hours</b>	<b>15</b>
<b>Fall Odd (Senior) - Semester 7</b>				<b>Spring Even (Senior) - Semester 8</b>			
	PHYS 4601	Senior Capstone Experience	1		PHYS 3034	Electricity & Magnetism I	4
	PHYS 4061	Intro to Physics Research	1		PHYS 4643	Medical Physics	3
	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		FINA 4011	Arts Engagement Series	1
		Elective	3				
		<b>Total Hours</b>	<b>12</b>			<b>Total Hours</b>	<b>14</b>
<b>Total Projected Hours at Graduation</b>							<b>124</b>