

Ouachita Baptist University

B.S. Degree: Bio-Physics

Effective Fall 2016

Effective Fall 2016						
OBU #	Title	Hours		OBU #	Title	Hours
Core Requirements				Physics Requirements		
Common				PHYS 1121	Intro to Physics & Engineering	1
CORE 1002	OBU Connections	2		PHYS 2054	University Physics I	4
CORE 1023	Contemporary World	3		PHYS 2064	University Physics II	4
CORE 1043	Composition I	3		PHYS 3004	Intro to Modern Physics	4
CORE 1113	Survey of the Bible	3		PHYS 3071	Biophysics Seminar	1
CORE 1123	Interpreting the Bible	3		PHYS 4643	Medical Physics	3
CORE 2213	Western Civilization in Global Context	3		PHYS 4601	Senior Capstone Experience	1
CORE 2233	World Literature	3		(**Plus any TWO courses from the following:)		
Flex				PHYS 3034	Electricity & Magnetism I	4
COMM 1003	Fundamentals of Public Speaking†	3		PHYS 4003	Classical Mechanics I	3
FINA 3xx3	Fine Arts	3		PHYS 4043	Intro to Quantum Mechanics	3
PSCI 2013	American National Government†	3		PHYS 4053	Math Physics	3
	Foreign/Biblical Language	6		PHYS 4023	Thermodynamics	3
KIN 1002	Wellness	2		PHYS 3123	Electrical Circuits	3
Experiential				PHYS 3131	Electrical Circuits Lab	1
FINA 4011	Arts Engagement Series	1				
		Total Hours	38			Total Hours
						24 - 26
Additional Degree Requirements				Biology Requirements		
MATH 2014	Calculus I	4		BIOL 1014	General Biology (Zoology)	4
MATH 2024	Calculus II	4		BIOL 1024	General Biology (Botany)	4
MATH 3034	Calculus III	4		BIOL 2024	Human Anatomy & Physiology 2	4
MATH 3043	Differential Equations	3		BIOL 4064	Cell & Molecular Biology	4
CHEM 1004	General Chemistry I	4		(**Plus any ONE courses from the following:)		
CHEM 1014	General Chemistry II	4		BIOL 2014	Human Anatomy & Physiology 1	4
CHEM 3004	Organic Chemistry I	4		BIOL 2604	Applied Microbiology	4
CHEM 3104	Organic Chemistry II	4		BIOL 3014	Microbiology	4
CHEM 4023 /	Biochemistry I or			BIOL 3064	Neuroscience	4
MATH 2063	Elementary Statistics	3		BIOL 3683	Bioinformatics	3
ENGL 3013	Technical & Professional Writing†	3		BIOL 4054	Genetics	4
	Science Research (BIOL, CHEM or PHYS)	1				
		Total Hours	38			Total Hours
						19 - 20
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		KIN 1002	Wellness	2
CORE 1043	Composition I	3		CORE 1023	Contemporary World	3
CHEM 1004	General Chemistry I	4		CHEM 1014	General Chemistry II	4
BIOL 1014	General Biology (Zoology)	4		BIOL 1024	General Biology (Botany)	4
MATH 1034	Pre-Calculus (May not be required)	4				
		Total Hours	18			Total Hours
						17
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
CHEM 3004	Organic Chemistry I	4		CHEM 3104	Organic Chemistry II	4
CORE 1113	Survey of the Bible	3		MATH 3043	Differential Equations	3
		Total Hours	15			Total Hours
						15
Fall Even (Junior) - Semester 5				Spring Odd (Junior) - Semester 6		
PHYS 3004	Intro to Modern Physics	4		PHYS 4043	Intro to Quantum Mechanics	3
CHEM 4023	Biochemistry I	3		PHYS 3071	Biophysics Seminar	3
PHYS 4023	Thermodynamics	3		BIOL 2024	Human Anatomy & Physiology 2	4
ENGL 3013	Technical & Professional Writing	3		CORE 1123	Interpreting the Bible	3
	Foreign/Biblical Language	3			Foreign/Biblical Language	3
		Total Hours	16			Total Hours
						16
Fall Odd (Senior) - Semester 7				Spring Even (Senior) - Semester 8		
PHYS 4601	Senior Capstone Experience	1		PHYS 4643	Medical Physics	3
COMM 1003	Fundamentals of Public Speaking	3		BIOL 4054	Genetics	4
CORE 2213	Western Civilization in Global Context	3		CORE 2233	World Literature	3
BIOL 4064	Cell & Molecular Biology	4		FINA 3xx3	Fine Arts	3
PSCI 2013	American National Government	3		FINA 4011	Arts Engagement Series	1
	Science Research (BIOL, CHEM or PHYS)	1				
		Total Hours	15			Total Hours
						14
<p>* Chapel Credits = 7 or 1 per semester for transfer students * GPA (overall and in all 3 majors) = 2.7 * At least 24 hours with grades of C or higher in the major * Residency: 30 * Jr/Sr Hours: At least 39 total, 12+ in the major and 6+ in the minor † Recommend course from a menu of choices</p>						
Total Projected Hours at Graduation						126