

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 / MATH 2063	Biochemistry I or Elementary Statistics	3		BIOL 3064	Neuroscience	4	
ENGL 3013	Technical & Professional Writing†	3		BIOL 3683	Bioinformatics	3	
	Science Research (BIOL, CHEM or PHYS)	1		BIOL 4054	Genetics	4	
Total Hours			38	Total Hours			19 - 20
Sample Four Year Degree Plan (Odd Year Entry)							
Fall Odd (Freshman) - Semester 1				Spring Even (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 Even (Sophomore) - Semester 3				Spring Odd (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		CORE 1123	Interpreting the Bible	3	
Total Hours			15	Total Hours			15
Fall Odd (Junior) - Semester 5				Spring Even (Junior) - Semester 6			
PHYS 3004	Intro to Modern Physics	4		PHYS 4643	Medical Physics	3	
CHEM 4023	Biochemistry I	3		BIOL 4054	Genetics	4	
MATH 3043	Differential Equations	3		BIOL 2024	Human Anatomy & Physiology 2	4	
ENGL 3013	Technical & Professional Writing	3		PSCI 2013	American National Government	3	
	Foreign/Biblical Language	3			Foreign/Biblical Language	3	
Total Hours			16	Total Hours			17
Fall Even (Senior) - Semester 7				Spring Odd (Senior) - Semester 8			
PHYS 4601	Senior Capstone Experience	1		PHYS 4043	Intro to Quantum Mechanics	3	
PHYS 4023	Thermodynamics	3		PHYS 3071	Biophysics Seminar	3	
CORE 2213	Western Civilization in Global Context	3		CORE 2233	World Literature	3	
BIOL 4064	Cell & Molecular Biology	4		FINA 3xx3	Fine Arts	3	
COMM 1003	Fundamentals of Public Speaking	3		FINA 4011	Arts Engagement Series	1	
	Science Research (BIOL, CHEM or PHYS)	1					
Total Hours			15	Total Hours			13
* 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							
Total Projected Hours at Graduation						126	