

# OUACHITA BAPTIST UNIVERSITY

Degree: B.S.

Major: Biophysics

2021 – 2022

COMMON CORE		Credit Hours
All students take the following courses.		
CORE 1002	OBU Connections <sup>†</sup>	2
CORE 1023	The Contemporary World	3
CORE 1043	Composition I	3
CORE 1113	Survey of the Bible	3
CORE 1123	Interpreting the Bible	3
CORE 2233	World Literature	3
CORE 2243	History of World Societies	3
CORE 2334	Scientific Inquiry <sup>1</sup> (Satisfied by major)	0
CORE 3023	Scientific Connections <sup>2</sup> (Satisfied by major)	0
<sup>1</sup> Prerequisite: Completion of the Analytic & Quantitative Reasoning Requirement. <sup>2</sup> Prerequisite: CORE 2334 Scientific Inquiry		
FLEXIBLE CORE		Credit Hours
Choose as indicated from each of the seven categories.		
<b>Analytic &amp; Quantitative Reasoning</b> (One course*) (Satisfied by Additional Area Requirements)		0
MATH 1003	College Algebra	
MATH 1033	Mathematics for the Liberal Arts	
PHIL 1003	Introduction to Philosophy	
PHIL 1023	Logic	
* Students with ACT math score of 22 or less (SAT 530 or less) must choose one of the MATH courses.		
<b>Applied Skills</b> (One course)		3
COMM 1003	Fundamentals of Public Speaking	
FINN 2003	Personal Finance	
<b>Artistic Engagement</b> (One course**)		3
FINA 3113	Fine Arts: Art	
FINA 3123	Fine Arts: Music	
FINA 3133	Fine Arts: Theatre	
** May be satisfied by participation in the European Study Program.		
<b>Civic Engagement in America</b> (One course)		3
PSCI 2013	American National Government	
HIST 2003	United States History to 1877	
HIST 2013	United States History Since 1877	
<b>Intercultural Appreciation and Communication</b> <sup>†</sup> (Two courses)		6
CHIN, FREN, GERM, GREK, HEBR, ITAL, LATN, JAPN, RUSS, SPAN	Two semesters of credit in the same foreign language. May also be satisfied by approved language-intensive study-abroad experience.	
<b>Physical Well-being</b> (One course)		2-3
KIN 1002	Concepts of Wellness	
KIN 2073	Health and Safety	
LST 2013	Outdoor Leisure Pursuits	
EXPERIENTIAL CORE		Credit Hours
CHAP 1000	Chapel (7 credits required)	0
FINA 4011	Arts Engagement Series	1
<b>Total</b>		<b>38-39</b>

<sup>†</sup> For more detail, refer to the School of Interdisciplinary Studies section of the catalog.

GENERAL GRADUATION REQUIREMENTS	
7 Chapel Credits, or 1 per semester for transfer students	
2.000 minimum GPA (overall, OBU, major, and minor)	
At least 24 hours with grades of C or higher in the major	
Jr./Sr. Hours: At least 39 total, 12 in the major and 6 in the minor	
At least 60 hours taken at OBU, including 30 of last 36 hours.	

MAJOR		Credit Hours
PHYS 1121	Intro to Physics and Engineering	1
PHYS 2054	University Physics I	8
PHYS 2064 or	University Physics II or	
PHYS 2024	College Physics I	
PHYS 2034	College Physics II	
PHYS 3004	Intro to Modern Physics	4
PHYS 3071	Biophysics Seminar	1
PHYS 4643	Medical Physics	3
Choose two of the following:		
PHYS 3034	Electricity and Magnetism I	6-7
PHYS 3123	Electrical Circuits	
PHYS 4003	Classical Mechanics I	
PHYS 4023	Thermodynamics	
PHYS 4043	Intro to Quantum Mechanics	
PHYS 4053	Mathematical Physics	
PHYS 4601	Senior Capstone Experience	
BIOL 1014	General Biology I	4
BIOL 1024	General Biology II	4
BIOL 2024	Human Anatomy & Physiology II	4
Choose one of the following:		
BIOL 2014	Human Anatomy & Physiology I	3-4
BIOL 2604	Applied Microbiology	
BIOL 3014	Microbiology	
BIOL 3064	Neuroscience	
BIOL 3683	Bioinformatics	
BIOL 4054	Genetics	
BIOL 4064	Cell and Molecular Biology	4
Choose one of the following:		
BIOL 4002	Research Capstone	1-2
CHEM 4511	Directed Chemistry Research	
PHYS 4801	Individual/Group Study Research	
<b>Total</b>		<b>44-47</b>

ADDITIONAL AREA REQUIREMENTS		
CHEM 1004	General Chemistry I	4
CHEM 1014	General Chemistry II	4
CHEM 3004	Organic Chemistry I	4
CHEM 3104	Organic Chemistry II	4
CHEM 4023 or	Biochemistry I or	3
MATH 2063	Elementary Statistics	
MATH 2014	Calculus I	4
MATH 2024	Calculus II	4
MATH 3034	Calculus III	4
MATH 3043	Differential Equations	3
ENGL 3013 or	Technical & Professional Writing or	3
CORE 2053	Composition II	
<b>Total</b>		<b>37</b>

**MINOR:** The minor requirement is waived. -

**ELECTIVES:** Choose courses to total 120 hours, including 39 Jr/Sr-level hours. 0-1

CREDIT HOUR SUMMARY	
<b>CORE</b>	<b>38-39</b>
<b>MAJOR</b>	<b>44-47</b>
<b>ADDITIONAL AREA REQUIREMENTS</b>	<b>37</b>
<b>ELECTIVES</b>	<b>0-1</b>
<b>Total</b>	<b>120-123</b>