

# OUACHITA BAPTIST UNIVERSITY

**Degree: B.S.**

**Major: Physics**

**2021 – 2022**

COMMON CORE		Credit Hours
All students take the following courses.		
CORE 1002	OBU Connections <sup>1</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.

MAJOR		Credit Hours
PHYS 1121	Intro to Physics & Engineering	1
PHYS 2054	University Physics I	8
PHYS 2064 <i>or</i>	University Physics II <i>or</i>	
PHYS 2024	College Physics I	
PHYS 2034	College Physics II	
PHYS 3004	Intro to Modern Physics	4
PHYS 3034	Electricity and Magnetism I	4
PHYS 4003	Classical Mechanics I	3
PHYS 4043	Introduction to Quantum Mechanics	3
PHYS 4061	Introduction to Physics Research	1
PHYS 4601	Senior Capstone Experience	1
Eleven additional hours in Physics, with at least 3 at Jr/Sr level. (PHYS 4023 and 4053 are strongly recommended.)		11
<b>Total</b>		<b>36</b>

ADDITIONAL AREA REQUIREMENTS		Credit Hours
Choose two of the following:		
CHEM 1004	General Chemistry I	8
CHEM 1014	General Chemistry II	
BIOL 1014	General Biology I	
BIOL 1024	General Biology II	
MATH 2014	Calculus I	4
MATH 2024	Calculus II	4
MATH 3034	Calculus III	4
MATH 3043	Differential Equations	3
MATH ¾ 3	Jr/Sr-level MATH elective	3
CSCI 1044	Programming I	4
ENGL 3013 <i>or</i>	Technical & Professional Writing <i>or</i>	3
CORE 2053	Composition II	
<b>Total</b>		<b>33</b>

<b>MINOR:</b> Minor must be in Biology, Chemistry, Computer Science, or Mathematics. (Note: The Additional Area Requirements are sufficient for a Math minor.)	<b>0-18</b>
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<b>ELECTIVES:</b> Choose courses to total 120 hours, including 39 Jr/Sr-level hours.	<b>12-13</b>
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CREDIT HOUR SUMMARY	
CORE	<b>38-39</b>
MAJOR	<b>36</b>
ADDITIONAL AREA REQUIREMENTS	<b>33</b>
MINOR (Assuming Math minor)	<b>0</b>
ELECTIVES	<b>12-13</b>
<b>Total</b>	<b>120</b>

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.