OUACHITA BAPTIST UNIVERSITY

Degree: B.S. **Major: Engineering Physics** **2025 - 2026**

COMMON CORE (20 hours) All students take the following courses.		Credit Hours
CORE 1002	OBU Connections†	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 (Satisfied by major)	0
CORE 3023	Scientific Connections (Satisfied by major)	0
FLEXIBLE CORE (17-18 hours) Choose as indicated from each of the seven categories.		
Analytic & Quantitative Reasoning (Satisfied by Additional Area Requirements) *Students with an MPI less than 80 must take one of the MATH courses.*		
MATH 1003	College Algebra	
MATH 1033	Mathematics for the Liberal Arts	0
PHIL 1003	Introduction to Philosophy	
PHIL 1023	Logic	
Applied Skills (Choose one)		
COMM 1003	Fundamentals of Public Speaking	3
FINN 2003	Personal Finance	
Artistic Engagement (Choose one) May be satisfied by participation in the European Study Program.		
FINA 3113	Fine Arts: Art	3
FINA 3123	Fine Arts: Music	
FINA 3133	Fine Arts: Theatre	
Civic Engagement in America (Choose one)		
PSCI 2013	American National Government	3
HIST 2003	United States History to 1877	
HIST 2013	United States History Since 1877	
Intercultural Appreciation and Communication† (Choose two) Two semesters of credit in the same foreign language. May also be satisfied by approved language-intensive study-abroad experience.		6
Physical Well-being (One course)		
KIN 1002	Concepts of Wellness	2-3
KIN 2073	Health and Safety	
KIN 2013	Outdoor Leisure Pursuits	
EXPERIENTIAL CORE (1 hour)		
CHAP 1000	Chapel (7 credits required)	0
FINA 4011	Arts Engagement Series	1
Total Core Requirements		**38-39**

† 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 1123	Intro to Physics & Engineering (or ENGR 1123)	3
PHYS 2054, 2064 PHYS 2024, 2034	University Physics I & II *or* College Physics I & II	8
PHYS 2073	University Physics III	3
PHYS 3004	Intro to Modern Physics	4
PHYS 3033 PHYS 4043	Electricity and Magnetism I *or* Introduction to Quantum Mechanics	3
PHYS 4003	Classical Mechanics I	3
PHYS 4061 *or* PHYS 4801	Introduction to Physics Research *or* Individual Study, Group Study, Research	1
ENGR 1112	Engineering Graphics	2
ENGR 2123	Statics	3
ENGR 2133	Dynamics	3
Nine approved additional hours in Physics or Engineering, with at least 6 junior/senior-level hours.		9
TOTAL		**42**

ADDITIONAL AREA REQUIREMENTS		
CHEM 1004	General Chemistry I	4
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 *or* CORE 2053	Technical & Professional Writing *or* Composition II	3
TOTAL		**29**

MINOR: Minor must be in Biology, Chemistry, Computer Science, or Mathematics. (Note: The Additional Area Requirements are sufficient for a Math minor.)	**0-18**
ELECTIVES: Choose courses to total 120 hours, including 39 Jr/Sr-level hours.	**10-11**

CREDIT HOUR SUMMARY	
CORE	**38-39**
MAJOR	**42**
ADDITIONAL AREA REQUIREMENTS	**29**
MINOR (Assuming Math minor)	**0**
ELECTIVES	**10-11**
TOTAL	**120**