

OUACHITA BAPTIST UNIVERSITY

Degree: B.S.

Major: Engineering Physics

2019 – 2020

COMMON CORE		Credit Hours
All students take the following courses.		
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 ¹ (Satisfied by major)	0
CORE 3023	Scientific Connections ² (Satisfied by major)	0
¹ Prerequisite: Completion of the Analytic & Quantitative Reasoning Requirement. ² Prerequisite: CORE 2334 Scientific Inquiry		
FLEXIBLE CORE		
Choose as indicated from each of the seven categories.		
Analytic & Quantitative Reasoning (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.		
Applied Skills (One course)		3
COMM 1003	Fundamentals of Public Speaking	
FINN 2003	Personal Finance	
Artistic Engagement (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.		
Civic Engagement in America (One course)		3
PSCI 2013	American National Government	
HIST 2003	United States History to 1877	
HIST 2013	United States History Since 1877	
Intercultural Appreciation and Communication[†] (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.	
Physical Well-being (One course)		2-3
KIN 1002	Concepts of Wellness	
KIN 2073	Health and Safety	
LST 2013	Outdoor Leisure Pursuits	
EXPERIENTIAL CORE		
CHAP 1000	Chapel (7 credits required)	0
FINA 4011	Arts Engagement Series	1
Total		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 1121	Intro to Physics & Engineering	1
PHYS 2054	University Physics I	
PHYS 2064 <i>or</i>	University Physics II <i>or</i>	8
PHYS 2024	College Physics I	
PHYS 2034	College Physics II	
PHYS 2123	Statics	3
PHYS 2133	Dynamics	3
PHYS 3004	Intro to Modern Physics	4
PHYS 3034	Electricity and Magnetism I	4
PHYS 3123	Electrical Circuits	3
PHYS 3131	Electrical Circuits Lab	1
PHYS 4003	Classical Mechanics I	3
PHYS 4601	Senior Capstone Experience	1
Seven additional hours in Physics. PHYS 1112 is strongly recommended.)		7
Total		38

ADDITIONAL AREA REQUIREMENTS		
CHEM 1004	General Chemistry I	4
CHEM 1014	General Chemistry II	4
MATH 2014	Calculus I	4
MATH 2024	Calculus II	4
MATH 3034	Calculus III	4
MATH 3043	Differential Equations	3
MATH 3/4 3	Jr/Sr-level MATH elective	3
CSCI 1044	Programming I	4
ENGL 3013 <i>or</i>	Technical & Professional Writing <i>or</i>	
CORE 2053	Composition II	3
Total		33

MINOR: Minor must be in Biology, Chemistry, Computer Science, or Mathematics. (Note: The Additional Area Requirements are sufficient for a Math minor.)	0-18
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ELECTIVES: Choose courses to total 120 hours, including 39 Jr/Sr-level hours.	10-11
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CREDIT HOUR SUMMARY	
CORE	38-39
MAJOR	38
ADDITIONAL AREA REQUIREMENTS	33
MINOR (Assuming Math minor)	0
ELECTIVES	10-11
Total	120