

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

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

<b>GENERAL GRADUATION REQUIREMENTS</b>	
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.	

<b>MAJOR</b>		<b>Credit Hours</b>
<b>Science &amp; Math (37 hours)</b>		
PHYS 2054	University Physics I	4
PHYS 2064	University Physics II	4
PHYS 3004	Introduction to Modern Physics	4
PHYS 3033 <i>or</i>	Electricity and Magnetism <i>or</i>	3
PHYS 4043	Quantum Mechanics	
PHYS 4003	Classical Mechanics	3
CHEM 1004	General Chemistry I	4
MATH 2014	Calculus I (May have prerequisites, depending on student's MPI)	4
MATH 2024	Calculus II	4
MATH 3034	Calculus III	4
MATH 3043	Differential Equations	3
<b>Engineering Core (28 hours)</b>		
ENGR 1123	Introduction to Physics and Engineering	3
ENGR 1112	Engineering Graphics	2
ENGR 2102	Introduction to Engineering Laboratory	2
ENGR 2123	Statics	3
ENGR 2133	Dynamics	3
ENGR 3023	Thermodynamics	3
ENGR 3124	Electrical Circuits	4
ENGR 3233	Numerical Methods	3
ENGR 4511	Engineering Proficiency	1
ENGR 4601	Engineering Capstone I	1
ENGR 4603	Engineering Capstone II	3
<b>Mechanical Engineering Emphasis (22 hours)</b>		
ENGR 3203	Mechanics of Materials	3
ENGR 3213	Fluid Mechanics	3
ENGR 3224	Engineering Materials	4
ENGR 3303	Heat Transfer	3
ENGR 4203	Fundamentals of Vibrations	3
ENGR 4213	Introduction to Manufacturing and Design	3
ENGR 4303	Machine Element Design	3
<b>TOTAL</b>		<b>87</b>

ADDITIONAL AREA REQUIREMENTS		
ENGL 3013 <i>or</i>	Technical & Professional Writing <i>or</i>	3
CORE 2053	Composition II	
The following courses are strongly recommended:		
PHYS 2073	University Physics III	0-9
MATH 3063	Probability & Statistics	
ECON 2023	Principles of Microeconomics	
TOTAL		3-12

<b>CREDIT HOUR SUMMARY</b>	
<b>CORE</b>	<b>38-39</b>
<b>MAJOR</b>	<b>87</b>
<b>ADDITIONAL AREA REQUIREMENTS</b>	<b>3-12</b>
<b>TOTAL</b>	<b>128-138</b>