

TOTAL

Degree: B.S. Major: Engineering - General Emphasis

COMMON CORE (20 hours)				
All students take t	he following courses.	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 CO	RE (17-18 hours)			
Choose as indicat	ed from each of the seven categories.			
Analytic & Qu	antitative Reasoning (Satisfied by major)			
Students with an M	IPI 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)				
, , , , , ,	participation in the European Study Program.	_		
FINA 3113	Fine Arts: Art	3		
FINA 3123	Fine Arts: Music			
FINA 3133	Fine Arts: Theatre			
	nent in America (Choose one)			
PSCI 2013	American National Government	3		
HIST 2003	United States History to 1877			
HIST 2013	United States History Since 1877			
	ppreciation and Communication† (Choose two)			
	of credit in the same foreign language. May also be	6		
	proved language-intensive study-abroad experience.			
Physical Well-				
KIN 1002	Concepts of Wellness	2-3		
KIN 2073	Health and Safety			
KIN 2013	Outdoor Leisure Pursuits			
	L CORE (1 hour)			
CHAP 1000	Chapel (7 credits required)	0		
FINA 4011	Arts Engagement Series	1		
Total Core Re	quirements	38-39		

Total Core Requirements 38
† 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.		

Science & Math (37 hours) PHYS 2054 University Physics I PHYS 2064 University Physics II PHYS 3004 Introduction to Modern Physics PHYS 3033 or Electricity and Magnetism or PHYS 4043 Quantum Mechanics PHYS 4040 Classical Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus II (May have prerequisites, depending on student's MPL) MATH 2024 Calculus III MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1122 Introduction to Physics and Engineering ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone I ENGR 4601 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE C			Credit
PHYS 2054 University Physics I PHYS 2064 University Physics II PHYS 3004 Introduction to Modern Physics PHYS 3033 or Electricity and Magnetism or PHYS 4043 Quantum Mechanics PHYS 4043 Quantum Mechanics PHYS 4003 Classical Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on student's MPL) MATH 2024 Calculus III MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1122 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	MAJOR		Hours
PHYS 2064 University Physics II PHYS 3004 Introduction to Modern Physics PHYS 3033 or Electricity and Magnetism or PHYS 4043 Quantum Mechanics PHYS 40403 Classical Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on student's MPL) MATH 3034 Calculus II MATH 3034 Calculus III MATH 3034 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1122 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics CCON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE COR	Science & Ma	th (37 hours)	
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PHYS 3004 Introduction to Modern Physics PHYS 3033 or Electricity and Magnetism or Quantum Mechanics PHYS 4043 Quantum Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on student's MPL) MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 2102 Introduction to Engineering Laboratory ENGR 2103 Statics ENGR 2103 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3023 Thermodynamics ENGR 3233 Numerical Methods ENGR 4511 Engineering Capstone I ENGR 4601 Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics CREDIT HOUR SUMMARY CORE 38-	PHYS 2064	University Physics II	4
PHYS 3033 or PHYS 4043 Quantum Mechanics PHYS 4043 Quantum Mechanics PHYS 4003 Classical Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on students MPL) MATH 3034 Calculus II MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Principles of Microeconomics CREDIT HOUR SUMMARY CORE 38-	PHYS 3004	, ,	4
PHYS 4043 Quantum Mechanics PHYS 4003 Classical Mechanics CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on students MPL) MATH 3034 Calculus II MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2133 Dynamics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4501 Engineering Capstone I ENGR 4601 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Principles of Microeconomics CREDIT HOUR SUMMARY CORE 38-			2
CHEM 1004 General Chemistry I MATH 2014 Calculus I (May have prerequisites, depending on student's MPL) MATH 2024 Calculus II MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics CORE 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38-	PHYS 4043		3
MATH 2014 Calculus I (May have prerequisites, depending on student's MPI.) MATH 2024 Calculus II MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38	PHYS 4003	Classical Mechanics	3
MATH 2024 Calculus II MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38	CHEM 1004	General Chemistry I	4
MATH 3034 Calculus III MATH 3043 Differential Equations Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 384	MATH 2014	Calculus I (May have prerequisites, depending on student's MPI.)	4
Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 385	MATH 2024	Calculus II	4
Engineering Core (28 hours) ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 385	MATH 3034		4
ENGR 1123 Introduction to Physics and Engineering ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	MATH 3043	Differential Equations	3
ENGR 1112 Engineering Graphics ENGR 2102 Introduction to Engineering Laboratory ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	Engineering C	ore (28 hours)	
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ENGR 2123 Statics ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 3033 Thermodynamics ENGR 3124 Electrical Circuits ENGR 4012 Engineering Proficiency ENGR 4601 Engineering Capstone II ENGR 4601 Engineering Capstone II ENGR 4602 Engineering Capstone II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL 3-	ENGR 1112	Engineering Graphics	2
ENGR 2133 Dynamics ENGR 3023 Thermodynamics ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	ENGR 2102	Introduction to Engineering Laboratory	2
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ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	ENGR 2133	Dynamics	3
ENGR 3124 Electrical Circuits ENGR 3233 Numerical Methods ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics ECON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 338-	ENGR 3023	Thermodynamics	3
ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (1900 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38-	ENGR 3124	,	4
ENGR 4511 Engineering Proficiency ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or CORE 2053 Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (1900 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38-	ENGR 3233	Numerical Methods	3
ENGR 4601 Engineering Capstone I ENGR 4603 Engineering Capstone II General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (CEON 2023 Principles of Microeconomics TOTAL CREDIT HOUR SUMMARY CORE 38-			1
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General Engineering Emphasis (22 hours) At least 22 hours from available ENGR courses, including prerequisites. TOTAL ADDITIONAL AREA REQUIREMENTS ENGL 3013 or Technical & Professional Writing or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (CON 2023 Principles of Microeconomics TOTAL 3- CREDIT HOUR SUMMARY CORE 38-			3
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ENGL 3013 or CORE 2053 Technical & Professional Writing or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (CEON 2023) Principles of Microeconomics 3- CREDIT HOUR SUMMARY CORE 38-			87
ENGL 3013 or CORE 2053 Technical & Professional Writing or Composition II The following courses are strongly recommended: PHYS 2073 University Physics III MATH 3063 Probability & Statistics (CEON 2023) Principles of Microeconomics 3- CREDIT HOUR SUMMARY CORE 38-	ADDITIONAL	ADEA DECLIDEMENTS	
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CREDIT HOUR SUMMARY CORE 38-	ECON 2023		
CORE 38-	TOTAL		3-12
CORE 38-		CREDIT HOUR SUMMARY	
	CORE		38-39
			87
ADDITIONAL AREA REQUIREMENTS 3-		ARFA REQUIREMENTS	3-12

2024 - 2025