ENGINEERING PATHWAY, A.S.

School of Science, Technology, Engineering & Mathematics

The Associate of Science degree in Engineering introduces students to fundamental principles underlying the field of engineering. Students will gain foundational and prerequisite knowledge in Mathematics and Physics. This degree pathway prepares students to succeed in bachelor's degree programs in various engineering fields and qualifies students for the Regents Engineering Pathway (https://www.usg.edu/academic_affairs_handbook/section2/C774/).

To qualify for graduation, students must meet all graduation requirements (http://catalog.highlands.edu/academic-information/#graduationrequirements).

Code	Title	Hours	Completed	
A. Essential Skills	s			
ENGL 1101	English Composition I	3		
ENGL 1102	English Composition II	3		
Select one of the mathematics coulof the following is	irse for which one	4		
MATH 2261	Calculus I			
B. Institutional O	ptions			
COMM 1100	Human Communication	2-3		
or COMM 1110	Public Speaking			
Select one of the	following:	2		
GHHU 2901	Special Topics: Humanities			
GHMA 2901	Special Topics: Mathematics			
GHSC 2901	Special Topics:Science			
GHSS 2901	Special Topics: Social Science			
C. Humanities/Fine Arts				
Select one of the following: 3				
ENGL 2111	World Literature I			
ENGL 2112	World Literature II			
ENGL 2121	British Literature I			
ENGL 2122	British Literature II			
ENGL 2131	American Literature I			
ENGL 2132	American Literature II			
ENGL 2135	Latino Literature			
ENGL 2140	African-American Literature			
Select one of the following: 3				
ARTS 1100	Art Appreciation			

ARTS 1111	Art History to Renaissance		
ARTS 1112	Art History Renaissance to Pre		
ENGL 2010	Humanities in Drama		
ENGL 2111	World Literature I		
ENGL 2112	World Literature II		
ENGL 2121	British Literature I		
ENGL 2122	British Literature II		
ENGL 2131	American Literature I		
ENGL 2132	American Literature II		
ENGL 2135	Latino Literature		
ENGL 2140	African-American Literature		
FILM 1100	Film Appreciation		
FILM 2700	History of Motion Pictures		
HUMS 2011	Studies In Humanities		
MUSC 1100	Music Appreciation		
PHIL 2010	Introduction to Philosophy		
RELI 1116	Intro to Religion		
SPAN 1001	Elementary Spanish I		
SPAN 1002	Elementary Spanish II		
SPAN 2001	Intermediate Spanish I		
SPAN 2002	Intermediate Spanish II		
THEA 1100	Theater Appreciation		
). Science, Mathe echnology	ematics, and		
echnology Select a two-cour	co coionoo	8	
equence of the f	ollowing:	0	
BIOL 1107K & BIOL 1108K	Principles of Biology I and Principles of Biology II		
CHEM 1211 & 1211L & CHEM 1212 & CHEM 1212L	Principles of Chemistry I and Principles of Chemistry I Lab and Principles of Chemistry II and Principles of Chemistry II Lab		

PHYS 2211K & PHYS 2212					
MATH 2262	Calculus II	4			
E. Social Science	es				
POLS 1101	American Government	3			
HIST 2111	American History I	3			
or HIST 2112	American History II				
Select one of th	e following:	3			
HIST 1111	World Civilization to 1500				
HIST 1112	World Civ Since 1500				
HIST 1121	Western Civilization I				
HIST 1122	Western Civilization II				
Select one of th	e following:	3			
ECON 2105	Principles of Macroeconomics				
HIST 1111	World Civilization to 1500				
HIST 1112	World Civ Since 1500				
HIST 1121	Western Civilization I				
HIST 1122	Western Civilization II				
HIST 2111	American History I				
HIST 2112	American History II				
HIST 2154	Minorities in U.S. History				
HIST 2400	Economic History				
POLS 2401	Intro to Global Issues				
POLS 2501	Intro to Domestic Issues				
PSYC 1101	Intro to General Psychology				
RELI 1116	Intro to Religion				
SOCI 1101	Introductory Sociology				
SOCI 1160	Intro to Social Problems				
F. Courses Related to the Pathway					
Select a two-course science 8 sequence of the following:					

PHYS 2211K & PHYS 2212K			
	Principles of Chemistry I and Principles of Chemistry I Lab and Principles of Chemistry II and Principles of Chemistry II Lab		
Select eight hours following: ²	s from the	7-8	
MATH 2263	Calculus III		
MATH 2280	Discrete Mathematics		
MATH 2285	Linear Algebra		
MATH 2310	Differential Equations		
Area A and Area D	Excess Hours	2	
Institutional Requirements Outside the Core			
PHED 1010	Concepts of Fitness/Health	2	
Additional two credit hours of physical education		2	
Total Hours		64-65	

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Required if not taken in Area D

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Students should consult with an advisor when choosing mathematics classes.