

National Park College - Advising Guide

U of A STEM Prep Program - stemprep.uark.edu

			STEM Prep									
English (6 hours)			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
ENG	1113	English Composition I	3	3	3	3	3	3	3	3	3	3
ENG	1123	English Composition II	3	3	3	3	3	3	3	3	3	3
Communications (3-6 hours)			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
EGR	1122	Introduction to Engineering	X	3	3	3	3	3	3	3	3	
SPCH	1103	Fundamentals of Public Speaking	X			3	3					3
Mathematics (15 hours)			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
MATH	2214	Calculus I	X	4	4	4	4	4	4	4	4	4
MATH	2224	Calculus II	X	4	4	4	4	4	4	4	4	4
MATH	2254	Calculus III	X	4		4		4	4	4	4	
MATH	2284	Differential Equations		4	4		4	4	4	4	4	
Science (8-16 hours)			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
CHEM	1204	General Chemistry I		4	4	4	4	4	4	4	4	4
CHEM	2204	General Chemistry II		4	4	4	CHEM 2204, BIOL 1114, or GEOL 1104	CHEM 2204, BIOL 1114, or GEOL 1104	CHEM 2204, PHYS 2124, or BIOL 2244	CHEM 2204, BIOL 1114, or GEOL 1104	CHEM 2204, BIOL 1114, or GEOL 1104	CHEM 2204, BIOL 1114, or GEOL 1104
BIOL	1114	General Biology		4	4				4			
GEOL	1104	Physical Geology						4				
PHYS	2114	University Physics I		4	4	4	4	4	4	4	4	4
Humanities and Social Science (15-18 hours)			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
US History/Government (3 hours)			3	3	3	3	3	3	3	3	3	3
POLS	1113	American National Government										
HIST	2223	US History to 1865										
HIST	2233	US History since 1865										
Economics (3-6 hours):			3	3	3	3	3	3	3	3	3	3
ECON	2203	Macroeconomics								3		
ECON	2213	Microeconomics										
Social Science (3-6 hours)			6	6	6	6	6	6	6	3	6	6
GEOG	1103	Introduction to Geography										
HIST	2223	US History to 1865										
HIST	2233	US History since 1865										
POLS	1123	American State & Local Government										
SOC	1103	Introduction to Sociology										
SOC	2203	Social Problems										
POLS	1113	American National Government										
HIST	2253	World Civilization to 1500										
HIST	2263	World Civilization since 1500										
PSYC	1103	General Psychology										
Fine Arts (3 hours)			3	3	3	3	3	3	3	3	3	3
ART	1593	Art Appreciation										
MUS	1213	Music Appreciation										
Humanities (0-3 hours)			3	3	3	0	0	3	3	3	3	0
PHIL	1123	Introduction to Philosophy									3	
ENG	2273	World Literature I										
ENG	2283	World Literature II										
Technical Electives			BENG	BMEG	CHEG	CompS	CompE	CVEG	ELEG	INEG	MEEG	DATA
EGR	2113	Engineering Materials								3	3	
EGR	2123	Statics	3							3	3	
EGR	2213	Dynamics									3	
CSCE	2004	Programming Foundations I (U of A course)	X			4	4		4			
DASC	12203	Role of Data Science in Today's World	X									3
DASC	10201	R Programming for Data Science	X									3
DASC	16003	Python Programming for Data Science	X									3
DASC	21303	Data Privacy & Ethics	X									3
Notes:							***Always check for the most recent version: http://stemprep.uark.edu					
All courses have been evaluated by the University of Arkansas College of Engineering. Courses taken outside of these courses are not guaranteed to transfer. The number of hours correspond to the number of hours needed by each degree program. Classes listed in multiple sections will only count in one section. Always check courseequivalency.uark.edu for updated course information. Students interested in MEEG should follow the NPC-UA MEEG transfer degree plan.							BENG	Biological Eng	CVEG	Civil Eng		
							BMEG	Biomedical Eng	ELEG	Electrical Eng		
							CHEG	Chemical Eng	INEG	Industrial Eng		
							CompS	Computer Science	MEEG	Mechanical Eng		
							CompE	Computer Eng	DATA	Data Science		