

ASSOCIATE OF SCIENCE DEGREE - Pre-Engineering Advising Guide (UA)

Required for Degree

English (6 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
ENGL 1013 English Composition I	3	3	3	3	3	3	3	3	3
ENGL 1023 English Composition II	3	3	3	3	3	3	3	3	3
Comm/Engineering (3-6 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
GNEG 1103 Introduction to Engineering	3	3	3	3	3	3	3	3	3
COMM 1303 Public Speaking				3	3				
Mathematics (8-16 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
MATH 2554 Calculus I	4	4	4	4	4	4	4	4	4
MATH 2564 Calculus II	4	4	4	4	4	4	4	4	4
MATH 2574 Calculus III	4	4	4		4	4	4	4	4
MATH 2584 Differential Equations	4	4	4		4	4	4	4	4
Science (16-24 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
CHEM 1104 College Chemistry I	4	4	4	4	4	4	4	4	4
CHEM 1124 College Chemistry II	4	4	4	Chem1124, BIOL1544 or GEOL 1114 (4)	Chem1124, BIOL1544 or GEOL 1114 (4)	4	Chem 1124 or BIOL 1544 (4)	Chem1124, BIOL1544 or GEOL1114 (4)	Chem1124, BIOL1544 or GEOL1114 (4)
BIOL 1544 Principles of Biology I	4	4							
GEOL 1114 General Geology						4			
PHYS 2054 Advanced College Physics I	4	4	4	4	4	4	4	4	4
PHYS 2074 Advanced College Physics II	4	4	4	4	4		4	4	4
MBIO 2014 Microbiology	4	4							
Core Requirements (15-18 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
US History/Government (3 hours)	3	3	3	3	3	3	3	3	3
PLSC 2003 American Government									
HIST 2003, 2013 US History I or II									
Economics (3 hours):	3	3		3	3	3	3		
ECON 2143 Basic Economics			ECON 2143					3	ECON 2143
ECON 2013 Macroeconomics			OR 2013						OR 2013
ECON 2023 Microeconomics									
Social Science (6 hours)	6	6	6	6	6	6	6	6	6
ANTH 1023 Intro to Cultural Anthropology									
GEOG 1123 Human Geography									
HIST 2003, 2013 US History I or II									
PLSC 2203 State and Local Government									
SOCI 2013 General Sociology									
SOCI 2033 Social Problems									
PLSC 2003 American Government									
HIST 1033, 1043 World Civilizations I or II									
PSYC 2003 General Psychology									
Fine Arts (3 hours)	3	3	3	3	3	3	3	3	3
ARHS 1003 Art Appreciation									
MUSI 1003 Music Appreciation									
COMM 1003 Film Arts									
THTR 1003 Intro to Theater									
Humanities (0-3 hours)	3	3	3	0	0	3	3	3	0
Any intermediate I foreign language									
PHIL 2003 Intro to Philosophy									
PHIL 2103 Intro to Ethics									
PHIL 2203 Intro to Logic									
ENGL 2213, 2223 World Literature I or II									
Technical Electives (3-9 hours)	BENG	BMEG	CHEG	CompS	CENG	CVEG	ELEG	INEG	MEEG
MEEG 2003 Statics	3							3	3
MEEG 2013 Dynamics	3								3
MEEG 2403 Thermodynamics	3	3	3				3		3
PROG 1003 Programming Logic				3	3		3	3	
PROG 1203 C++ Programming I				3	3		3	3	
PROG 2203 C++ Programming II				3	3				

Notes: ***Always check for the most recent version: <https://engineering.uark.edu/academics/transfer-students/nwacc.php>

**Students can choose to take extra hours at NWACC which will complete their AS degree but not count toward an engineering degree at UA; OR complete PHIL 3103 Ethics and the Professions at UA as required for engineering degree and request a UA transcript sent to NWACC to award degree.

	BENG	Biological Eng	CENG	Computer Eng
	BMEG	Biomedical Eng	CVEG	Civil Eng
	CHEG	Chemical Eng	ELEG	Electrical Eng
	CompS	BS-Computer Sci	INEG	Industrial Eng
			MEEG	Mechanical Eng