

Pre-engineering at UAM is a 2-year pre-program designed to provide students with the core engineering curriculum in math, science, and humanities courses that form the foundation for most of the engineering programs in the state of Arkansas. During the two years of this program, students are expected to take most of the classes they would usually take during the first two years at any of the schools and colleges of engineering in the state. An Associate's degree is given by UAM after completion of the pre-engineering program.

Fall Semester Year 1		hr	Spring Semester Year 1		hr
+MATH 1033	Trigonometry	3	MATH 2255	Calculus I	5
+MATH 1043	College Algebra	3	CHEM 1103	General Chemistry I	3
BIOL 1063	Intro. to Biological Science	3	CHEM 1121	General Chemistry I Lab	1
ENGL 1013	Composition I	3	ENGL 1023	Composition II	3
PE 2203	Health & Wellness Promotion	3	ECON 2203	Prin. of Macroeconomics	3
*	Social Science Elective I	3		Am. History or Am. Nat Gov	3
Total Hours		18	Total Hours		18

Fall Semester Year 2		hr	Spring Semester Year 2		hr
MATH 3495	Calculus II	5	MATH 3543	Calculus III	3
PHYS 2313	University Physics I	3	PHYS 2323	University Physics II	3
PHYS 2231	Coll. and Univ. Physics I Lab	1	PHYS 2231	Coll. and Univ. Physics II Lab	1
ENGL 2283 or ENGL 2293	Survey of World Lit I OR Survey of World Lit II	3	ART 1053 or MUS 1113	Art Appreciation OR Music Appreciation	3
*	Social Sciences II	3	***	MATH Elective	3
**	Communication	3	****	General Elective	3
Total Hours		18	Total Hours		16

+Students with appropriate background in mathematics and an ACT math score of 24 can take Calculus I in place of Trigonometry and College Algebra.

If possible, you should take University Physics III with lab prior to transfer

See course options below and links to engineering schools on the following page

Course Options

*	Social Sciences (6 hrs) Choose two courses from two different disciplines				
ANTH 2203	Cultural Anthropology	3	PHIL 2223	Introduction to Philosophy	3
GEOG 2213	General Geography I	3	PSY 1013	Introduction to Psychology	3
GEOG 2223	General Geography II	3	SOC 2213	Introduction to Sociology	3
HIST 1013	Survey of Civilization I	3	SWK 1013	Introduction to Social Work	3
HIST 1023	Survey of Civilization II				
**	Communications (3 hrs) Choose one course from the following				
COMM 1023	Public Speaking	3	COMM 2203	Interpersonal Communication	3
COMM 2283	Business & Professional Spch	3			
***	Math Elective (Choose one of these; however, both are recommended if possible)				
MATH 3533	Differential Equations (Spring Odd Years)	3	MATH 3463	Linear Algebra (Spring Even Years)	3
****	General Elective (Choose minimum of 1; however all are recommended if possible)				
CIS 2203	Programming Logic & Design	3	CHEM 1113 And CHEM 1131	General Chemistry II And General Chemistry II lab	4
ESCI 1063 ESCI 1051	Elements of Geology and Elements of Geology Lab	4	GNEG 1111 GNEG 1121 (UAF courses)	Intro. to Engineering I Intro to Engineering II (available online through UAF)	1 1

Links to engineering programs in the region:

University of Arkansas (Fayetteville)- College of Engineering <https://engineering.uark.edu/>

University of Arkansas (Little Rock)- College of Engineering and Information Technology <http://ualr.edu/eit/>

Arkansas State University - College of Engineering & Computer Science <https://www.astate.edu/college/ecs/>

Arkansas Tech University - Engineering Program <http://www.atu.edu/engineering/>

Cossatot Community College of the University of Arkansas - Engineering Technology <http://www.cccua.edu/>

East Arkansas Community College - Engineering Design Technology <http://www.eacc.edu/>

Harding University - Engineering & Physics <http://www.harding.edu/engineering/>

John Brown University - Engineering Major <http://www.jbu.edu/majors/engineering/>

Other helpful links:

Search for engineering jobs by engineering discipline or location <http://www.engineerjobs.com/>

U.S. Army engineering jobs

<http://www.goarmy.com/careers-and-jobs/stem/about-army-stem/engineering-jobs.html>

List of engineering schools

http://en.wikipedia.org/wiki/List_of_engineering_schools#United_States