
ENGINEERING

Associate of Science Degree

AS-SR 80706

Advisor: Spencer Udall

Today's professional engineer requires a minimum of four years of highly theoretical and specialized training. Very often this training requires more than four regular college years; that is, either attendance for several summer terms or an additional fifth year, before you may qualify for the bachelor's degree. Since program requirements differ between universities, the official transfer pathway (<https://aztransmac2.asu.edu/cgi-in/WebObjects/ATASS.woa/wa/MajorGuidesNavAZ?School=EAC>) of the school which you plan to attend upon leaving EAC should be consulted in order to adjust this program to your personal needs.

EAC offers you two years of training in the required background mathematics and sciences. In addition, EAC offers many of the General Education courses which are required as part of the overall education of an engineer.

Curriculum Requirements

CHM 151	General Chemistry I	4 credits
Select 4 additional credits from Lab Science list here		4 credits
EGR 102	Introduction to Engineering	4 credits
MAT 240	Calculus III	4 credits
MAT 260	Differential Equations	4 credits
Choose at least 6 additional credits from the following		
EGR 130	C# Programming I	3 credits
EGR 150	Digital Design Fundamentals	4 credits
EGR 200	Introduction to Mining Engineering	5 credits
EGR 220	Circuits I	5 credits
EGR 214	Engineering Mechanics I - Statics	3 credits
EGR 215	Engineering Mechanics II - Dynamics	3 credits
EGR 233	Mechanics of Materials	3 credits
EGR 250	Plane Surveying	3 credits
EGR 255	Thermodynamics	3 credits
EGR 296A	Mineral Resource Engineering Seminar	1 credit
MAT 225	Elementary Linear Algebra	3 credits

General Education Requirements

AGEC-S. To complete your General Education requirements, one of the courses taken to fulfill degree requirements must be designated as an Intensive Writing/Critical Inquiry course (IW), Global/International/Historical Awareness (GIH) course, and Diversity and Inclusion (DI) course. Note that a single course may fulfill more than one of the requirements.

Composition

ENG 101	Written Communications I	3 credits
ENG 102	Written Communications II	3 credits

Mathematics

MAT 220	Calculus I	5 credits
MAT 230	Calculus II	4 credits

Lab Science

PHY 211	Physics with Calculus I	5 credits
PHY 212	Physics with Calculus II	5 credits

Humanities

Select from Humanities list here.

Choose courses from more than one department and one course must be in the Fine Arts. 6 credits

Social Sciences

Choose from Social Sciences list here. 6 credits

Courses listed in Curriculum Requirements that qualify for General Education credit (see the General Education section of the catalog) may fulfill both General Education and Curriculum Requirements unless General Education Requirements are specified in the major.

Elective Requirements

Select from the Elective or Better list [here](https://aztransmac2.asu.edu/cgi-bin/WebObjects/CEG) or choose electives from the list of courses in the Arizona Higher Education Course Equivalency Guide (CEG) located at <https://aztransmac2.asu.edu/cgi-bin/WebObjects/CEG>. Scroll to the bottom and select Elective or Better Report under CEG Reports and information. Click on Eastern Arizona College. If you plan to transfer to any University other than the three Arizona State Universities, consult with an advisor from the school as you make your selections.

In addition to completing the required courses listed above with a grade "C" or better, you must meet the following general graduation requirements to obtain this degree:

- Complete at least 16 degree credits at Eastern Arizona College.
- Attain a cumulative grade point average of 2.00 or higher.
- File a Graduation Petition through your Gila Hank Online account at least 60 calendar days prior to the end of the semester in which graduation is anticipated.
- Remove any indebtedness to the College.