Industrial Sciences & Technology (General Technology)

Associate of Applied Science (A.A.S.)

Transfer Options

- Arkansas State University-Jonesboro
  o BAS Organizational Supervision
- Oklahoma State University Institute of Technology
  o Bachelor of Technology Applied Technical Leadership
- University of Arkansas-Fort Smith
  o Bachelor of Applied Science

General Technology is an emphasis area under the Associate of Applied Science in Industrial Sciences and Technology. This degree program allows a student to become proficient in a particular occupational area, to increase their knowledge and skills in that area or expand his/her knowledge and skills to other areas of interest through the selection of additional elective courses.

Mission

The mission of the Industrial Sciences & Technology program is to provide quality education and training that enhance employment opportunities and increase the personal development of students including opportunity to complete a four-year degree.

Program Goals

The Associate of Applied Science in Industrial Sciences & Technology will provide students the knowledge and skills necessary to obtain entry level employment in the applicable field of study and the first two years of a university program.

Program Learning Outcomes (PLOs)

PLO 1. An ability to use the techniques, skills, and modern tools necessary for the appropriate field of study.

PLO 2. An ability to apply knowledge of mathematics, science, and engineering.

PLO 3. An ability to identify, formulate, and solve problems.

PLO 4. An understanding of professional and ethical responsibility.

PLO 5. An ability to communicate effectively.

General Information

- Developmental coursework may be required in addition to the courses required for this degree and/or certificate(s).
- A [P] indicates that a prerequisite is required before the course can be taken. Refer to the prerequisites table listed below the degree plan or the course description in the College Catalog to determine the prerequisite.

Developmental Coursework

Course Number	Course Title	Required	Enrolled	Completed
ENGL 0121	Composition I Lab	☐	☐	☐

Semester I (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
ENGL 1113	ENGL 1013	Composition I [P1]	☐	☐
MD 1073	N/A	NCCER	☐	☐
MD 2603	N/A	Industrial Safety	☐	☐
MIS 1003	CPSI 1003	Introduction to Computers	☐	☐
GSTD 1021	N/A	Student Success I	☐	☐
_____3	NA	Elective	☐	☐

Semester II (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
CO 2213	ENGL 2023	Technical Writing [P2]	☐	☐
MATH 1063	MATH 1113	Math Reasoning	☐	☐
MD 1403	N/A	Basic Blueprint Reading	☐	☐
GSTD 1031	N/A	Student Success II	☐	☐
_____3	NA	Elective	☐	☐
_____3	NA	Elective	☐	☐

Semester III (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
EM 2924	N/A	Programmable Logic Controller 1	☐	☐
MD 1052	N/A	Introduction to Preventive Maintenance	☐	☐
GSTD 1041	N/A	Student Success III	☐	☐
_____3	NA	Elective	☐	☐
_____3	NA	Elective	☐	☐
_____3	NA	Elective	☐	☐

Semester IV (12 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
CE 2403	N/A	Internship	☐	☐
_____3	NA	Elective	☐	☐
_____3	NA	Elective	☐	☐
Choose three (3) hours from these courses:				
CJ 1003	CRJU 1023	☐Introduction to Criminal Justice ☐ECON [P3], GEOG, HIST, PSCI, PSYC, or SOC prefix	☐	☐

Total Credit Hours: 60

ELECTIVES

EE 1003	Introduction to Basic Electricity
EM 2963	PLC for Engineering [P5]
EN 1003	Introduction to Engineering
EN 1023	Engineering Concepts I [P4]
EN 1033	Digital Logic
EN 2034	Fundamentals of CAD
EN 2043	Robotic Applications
MD 1003	Computer Integrated Manufacturing
MD 1033	Basic Machine Tools
MD 1303	Basic Welding
MD 1113	Motor Controls [P8]
MD 1313	Advanced Welding
MD 1323	Intermediate Welding
MD 2003	Millwright Level I
MD 2013	Millwright Level II [P6]
MD 2023	Millwright Level III [P7]
MD 2403	Fluidics

PREREQUISITES

P1	Refer to the SAU Tech Placement Plan.
P2	ENGL 1113-Composition I.
P3	MATH 1023-College Algebra or MATH 1063-Math Reasoning.
P4	EN 1003-Intro to Engineering.
P5	EM 2924-Programmable Logic Controller I
P6	MD 2003-Millwright Level I.
P7	MD 2023-Millwright Level II.
P8	EN 1003-Introduction to Basic Electricity.