

# Industrial Sciences & Technology (General Technology)

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



**DEGREE PLAN  
2021-2022**

## Transfer Options

- Arkansas State University-Jonesboro
  - BAS Organizational Supervision
- Oklahoma State University Institute of Technology
  - Bachelor of Technology Applied Technical Leadership
- University of Arkansas-Fort Smith
  - 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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## Semester I (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
ENGL 1113	ENGL 1013	Composition I [P1]	<input type="checkbox"/>	<input type="checkbox"/>
MD 1073	N/A	NCCER	<input type="checkbox"/>	<input type="checkbox"/>
MD 2603	N/A	Industrial Safety	<input type="checkbox"/>	<input type="checkbox"/>
MIS 1003	CPSI 1003	Introduction to Computers	<input type="checkbox"/>	<input type="checkbox"/>
GSTD 1021	N/A	Student Success I	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>

## Semester II (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
CO 2213	ENGL 2023	Technical Writing [P2]	<input type="checkbox"/>	<input type="checkbox"/>
MATH 1063	MATH 1113	Math Reasoning	<input type="checkbox"/>	<input type="checkbox"/>
MD 1403	N/A	Basic Blueprint Reading	<input type="checkbox"/>	<input type="checkbox"/>
GSTD 1031	N/A	Student Success II	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>

## Semester III (16 hours)

Course Number	ACTS#	Course Title	Enrolled	Completed
EM 2924	N/A	Programmable Logic Controller 1	<input type="checkbox"/>	<input type="checkbox"/>
MD 1052	N/A	Introduction to Preventive Maintenance	<input type="checkbox"/>	<input type="checkbox"/>
GSTD 1041	N/A	Student Success III	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>
3	NA	Elective	<input type="checkbox"/>	<input type="checkbox"/>

## Semester IV (12 hours)

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

**Total Credit Hours: 60**

**General Requirements**

- This degree requires successful completion of **60** credit hours.
- All degree-seeking students are required to take Student Success.
- A minimum 2.00 cumulative grade point average is required for graduation.

**Residency Requirement**

The student is required to complete a minimum of 15 semester hours in residence at SAU Tech for associate degrees and technical certificates and half of the credit hours required for certificates of proficiency as well as complete all other graduation requirements. Students who wish to pursue additional degrees must complete a minimum of 15 credit hours of difference between the degrees.

**ACTS Course Numbers**

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and equitable treatment in the application of credits for admissions and degree requirements. Go to <http://acts.adhe.edu> for more information.

**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.