

Industrial Systems Technology (IS13)

Associate of Applied Science eMap

This eMap, along with regular meetings with your program advisor and using DegreeWorks, will help you remain on track to finish your program as quickly as possible and graduate from Georgia Northwestern Technical College. This eMap is intended to be used when beginning the program in Fall semester. Starting the program in Spring or Summer semesters may alter the suggested courses or course availability. This pathway is based on the 2024-2025 academic year.



OCCUPATIONAL CURRICULUM (48 Credit Hours)

1st set of suggested courses

Course	Hours	Completed
IDSY 1101 DC Circuit Analysis (occurs in MiniMester A)*	3	<input type="checkbox"/>
IDSY 1105 AC Circuit Analysis (occurs in MiniMester B)*	3	<input type="checkbox"/>
IDSY 1190 Fluid Power Systems*	4	<input type="checkbox"/>
IDSY 1130 Industrial Wiring*	4	<input type="checkbox"/>

IDSY 1101 and IDSY 1105 are the recommended courses as they may be pre-requisites or courses that help meet certificate requirements. Additional courses may meet this requirement. See Course Catalog for more info.

2nd set of suggested courses

Course	Hours	Completed
IDSY 1170 Industrial Mechanics*	4	<input type="checkbox"/>
IDSY 1110 Industrial Motor Controls I (Prerequisites: IDSY 1101 and IDSY 1105)	4	<input type="checkbox"/>
XXXX xxxx Occupational Elective: IDSY 1020, Print Reading and Problem Solving (Corequisite: IDSY 1110)	3	<input type="checkbox"/>

3rd set of suggested courses

Course	Hours	Completed
IDSY 1210 Industrial Motor Controls II (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1110)	4	<input type="checkbox"/>
IDSY 1195 Pumps and Piping Systems*	3	<input type="checkbox"/>
XXXX xxxx Occupational Elective: AUMF 1150, Introduction to Robotics*	3	<input type="checkbox"/>
XXXX xxxx Occupational Elective: AUMF 2060, Work Cell Design*	2	<input type="checkbox"/>

IDSY 1210 is strongly recommended to be taken prior to IDSY 1220. AUMF 2060 should be taken the same semester, or after completing, AUMF 1150.

Additional information for the Industrial Systems Technology AAS Degree and program requirements can be found at [GNTC 2024-2025 Catalog](#).

Georgia Northwestern Technical College is a unit of the Technical College System of Georgia and an Equal Opportunity Institution. Georgia Northwestern Technical College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees.

4th set of suggested courses

Course	Hours	Completed
IDSY 1120 Basic Industrial PLC's (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1110)	4	<input type="checkbox"/>
XXXX xxxx Occupational Elective	3	<input type="checkbox"/>

5th set of suggested courses

Course	Hours	Completed
IDSY 1220 Intermediate Industrial PLC's (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1110, IDSY 1120)	4	<input type="checkbox"/>

GENERAL EDUCATION CORE CURRICULUM (15 Credit Hours)

Please note: The General Education Core Curriculum can be taken during the 4th and 5th set or anytime a suggested course is not available and student needs another course to meet hours.

General Education Core

Course	Hours	Completed
ENGL 1101 Composition and Rhetoric	3	<input type="checkbox"/>
XXXX xxxx Humanities/ Fine Arts Elective	3	<input type="checkbox"/>
XXXX xxxx Social/ Behavioral Sciences Elective	3	<input type="checkbox"/>
MATH 1103 Quantitative Skills and Reasoning OR MATH 1111 College Algebra	3	<input type="checkbox"/>
XXXX xxxx General Education Core Elective	3	<input type="checkbox"/>

Total Credit Hours: 63 Minimum Credit Hours Required for Graduation

Industrial Systems Technology AAS Degree Planning Notes:

- Courses for this Associates Degree are offered at the Floyd County Campus and Catoosa County Campus. Schedules at each campus may vary.
- (*) Course can be taken any available semester. Course location/campus may vary.
- To complete a full-time schedule in the 4th or 5th set OR if an occupational curriculum course is at full capacity, student can be placed in a general education course and/or occupational elective course if they are open.
- If AUMF courses are completed where suggested for the Occupational Electives (3rd set), student will also earn a Robotic Technician (RT41) Certificate at Graduation.