

Instrumentation and Controls Technician (IA13)

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 eMap is based on the 2026-2027 academic year.



Please note: This eMap follows the Catoosa County Campus schedule.

1 st set of suggested courses			
Course		Hours	Completed
IDSY 1101	DC Circuit Analysis	3	☐
IDSY 1105	AC Circuit Analysis	3	☐
IDSY 1230	Instrumentation	4	☐
ICET 2040	Fundamentals of Pressure, Temperature, Flow, and Level	5	☐

IDSY 1101 and IDSY 1105 are the recommended courses. Additional courses may be available to meet these requirements. See Course Catalog.

2 nd set of suggested courses			
Course		Hours	Completed
IDSY 1112	Motor Controls I	4	☐
IDSY 1113	Motor Controls II	4	☐
ICET 2060	Instrumentation Maintenance and Calibration (Prerequisite: ICET 2040)	5	☐

3 rd set of suggested courses			
Course		Hours	Completed
IDSY 2000	PLC I	4	☐

4 th set of suggested courses			
Course		Hours	Completed
IDSY 2750	Human Machine Interface	4	☐
IDSY 2830	Networking Industrial Equipment	4	☐

5 th set of suggested courses			
Course		Hours	Completed
IDSY 2850	Industrial Graphical Communication	4	☐
IDSY 2800	Advanced Process Control	4	☐

6 th set of suggested courses			
Course		Hours	Completed
ICET 2080	Final Control Elements (Prerequisite: IDSY 2800)	4	☐

GENERAL EDUCATION COURSES:

General Education Courses can be taken any semester the student has availability., but must be completed in order to receive the Degree.

General Education			
Course		Hours	Completed
MATH 1111	College Algebra	3	☐
OR	OR		
MATH 1103	Quantitative Skills and Reasoning		
ENGL 1101	Composition and Rhetoric	3	☐
XXXX xxxx	Social/Behavioral Sciences Elective	3	☐
XXXX xxxx	Humanities/Fine Arts Elective (Recommended: MUSC 1101, Music Appreciation)	3	☐
XXXX xxxx	General Education Core Elective	3	☐

Total Credit Hours: 67 Minimum Credit Hours Required for Graduation

Instrumentation and Controls Technician Associates Degree Program Planning Notes:

- Courses for this program are offered at Catoosa County Campus and Floyd County Campus. This eMap follows the Catoosa County Campus schedule.
- The program advisor for IA13 is Peter Fitzsimmons, pfitzsimmons@gntc.edu.

Additional information for the Instrumentation and Controls Technician AAS Degree and program requirements can be found at [2026-2027 Catalog](#).