

Instrumentation and Controls Technician (IAC2)

Diploma 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 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	☐

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	☐

BASIC SKILLS COURES:

Basic Skills Courses can be added in to any semester where student has availability but must be completed in order to receive Diploma.

Basic Skills Courses			
Course		Hours	Completed
MATH 1012	Foundations of Mathematics	3	☐
OR			
MATH 1013	Algebraic Concepts		
ENGL 1005	Applied Technical Communication	3	☐
EMPL 1000	Interpersonal Relations and Professional Development	2	☐

Total Credit Hours: 51 Minimum Credit Hours Required for Graduation

Instrumentation and Controls Technician Diploma 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 IAC2 is Peter Fitzsimmons, pfitzsimmons@gntc.edu.

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