

Automation Technology (IST4)

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 2025-2027 academic year.



OCCUPATIONAL CURRICULUM (38 Credit Hours)

1 st set of suggested courses			
Course		Hours	Completed
IDSY 1101	DC Circuit Analysis (occurs in B-Term)	3	☐
IDSY 1105	AC Circuit Analysis (occurs in C-Term)	3	☐
IDSY 1171	Industrial Mechanics*	4	☐
IDSY 1111	Industrial Wiring	4	☐

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.

2 nd set of suggested courses			
Course		Hours	Completed
IDSY 1181	Fluid Power Systems*	4	☐
IDSY 1112	Motor Controls I (occurs in B-Term) (Prerequisites: IDSY 1101 and IDSY 1105)	4	☐
IDSY 1113	Occupational Elective: Motor Controls II (occurs in C-Term) (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1112)	4	☐
IDSY 1191	Pumps and Piping Systems*	3	☐

3 rd set of suggested courses			
Course		Hours	Completed
IDSY 2000	PLC I (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1112)	4	☐
IDSY 2001	PLC II (Prerequisite: IDSY 1105, IDSY 1101, IDSY 1112, IDSY 2000) **	4	☐
XXXX xxxx	Occupational Elective: IDSY 1020, Print Reading and Problem Solving	3	☒
XXXX xxxx	Occupational Elective: IDFC 1007, Industrial Safety Procedures	2	☐

Additional information for the Automation Technology Diploma and program requirements can be found at [GNTC 2026-2027 Catalog](#).

4 th set of suggested courses			
Course		Hours	Completed
XXXX xxxx	Occupational Elective: AUMF 1150, Introduction to Robotics**	3	☐
XXXX xxxx	Occupational Elective: AUMF 2060, Work Cell Design**	2	☐

BASIC SKILLS COURSES (8 Credit Hours)

Please note: Basic Skills Courses 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.

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

Total Credit Hours: 46 Minimum Credit Hours Required for Graduation

Automation Technology Diploma Planning Notes:

- Courses for this Diploma are offered at the Floyd County Campus, Catoosa County Campus, and Whitfield Murray Campus. Schedules at each campus may vary.
- (*) Course can be taken any available semester. Course location/campus may vary.
- (**) Optional Course: AUMF 1150, AUMF 2060, and IDSY 1220 are not required for the Automation Diploma; however, it does fulfill a requirement to earn a Robotic Technician (RT41) Certificate.
- To complete a full-time schedule in the 4th set OR if an occupational course is at full capacity, student can be placed in a basic skills course and/or occupational elective course if they are open.
- If courses are completed in the order as listed on this eMap, student will earn:
 - (1) Industrial Fluid Power (IF11) Certificate at the end of the 2nd set.
 - (2) Robotic Technician (RT41) Certificate at Graduation, if AUMF 1150, AUMF 2060, and IDSY 2001 are completed where suggested.
- The Program Advisor for IST4 on the Catoosa Campus is Cody Holloway, cholloway@gntc.edu.
- The program Advisor for IST4 on the Floyd Campus is Wesley Runyon, wrunyon@gntc.edu.
- The Program Advisor for IST4 on the Whitfield Murray Campus is Scottie Spears, sspears@gntc.edu.