

Industrial Systems 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 2024-2025 academic year.



OCCUPATIONAL CURRICULUM (38 Credit Hours)

1 st 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.

2 nd 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"/>

3 rd set of suggested courses			
Course		Hours	Completed
XXXX xxxx	Occupational Elective (Recommended Course: 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"/>
AUMF 1150**	Introduction to Robotics* (Optional Course)	3	<input type="checkbox"/>
AUMF 2060**	Work Cell Design* (Optional Course)	2	<input type="checkbox"/>

4 th 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"/>

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Georgia Northwestern Technical College is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate degrees.

5th set of suggested courses

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

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	<input type="checkbox"/>
EMPL 1000	Interpersonal Relations and Professional Development	2	<input type="checkbox"/>
MATH 1012 OR MATH 1013	Foundations of Mathematics OR Algebraic Concepts	3	<input type="checkbox"/>

Total Credit Hours: 46 Minimum Credit Hours Required for Graduation

Industrial Systems 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 Industrial Systems Diploma; however, it does fulfill a requirement to earn a Robotic Technician (RT41) Certificate.
- To complete a full-time schedule in the 4th or 5th 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 3rd set.
 - (2) Robotic Technician (RT41) Certificate at Graduation, if AUMF 1150, AUMF 2060, and IDSY1220 are completed where suggested in the 3rd and 5th set.

Additional information for the Robotic Technician Certificate and program requirements can be found at [GNTC 2024-2025 Catalog](#).