

Automation Engineering Technology (AET3)

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 2024-2025 academic year.



1st set of suggested courses

Course		Hours	Completed
ENGT 1000	Introduction to Engineering Technology	3	<input type="checkbox"/>
ECET 1102	Circuit Analysis I (Corequisite: ECET 1102L, ENGT 1000, MATH 1111)	3	<input type="checkbox"/>
ECET 1102L	Circuit Analysis I Lab (Corequisite: ECET 1102, ENGT 1000, MATH 1111)	1	<input type="checkbox"/>
MATH 1111	College Algebra	3	<input type="checkbox"/>
ENGL 1101	Composition and Rhetoric	3	<input type="checkbox"/>

2nd set of suggested courses

Course		Hours	Completed
IDSY 1110	Industrial Motor Controls I	4	<input type="checkbox"/>
ECET 2102	Circuit Analysis II (Prerequisite: ECET 1102, ECET 1102L, MATH 1111 / Corequisite: ECET 2102L)	3	<input type="checkbox"/>
ECET 2102L	Circuit Analysis II Lab (Prerequisite: ECET 1102, ECET 1102L, MATH 1111 / Corequisite: ECET 2102)	1	<input type="checkbox"/>
MATH 1113	Precalculus (Prerequisite: MATH 1111)	3	<input type="checkbox"/>
XXXX xxxx	Humanities/ Fine Arts Elective	3	<input type="checkbox"/>

3rd set of suggested courses

Course		Hours	Completed
IDSY 1120	Basic Industrial PLCs	4	<input type="checkbox"/>
ECET 2000	Engineering Economics and Management	3	<input type="checkbox"/>
XXXX xxxx	Social/ Behavioral Sciences Elective	3	<input type="checkbox"/>

4th set of suggested courses

Course		Hours	Completed
ECET 1191	Computer Programming Fundamentals	3	<input type="checkbox"/>
AUMF 1150	Introduction to Robotics	3	<input type="checkbox"/>
AUMF 2060	Work Cell Design Laboratory	2	<input type="checkbox"/>

DFTG 2010	Engineering Graphics	4	<input type="checkbox"/>
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5th set of suggested courses

Course		Hours	Completed
IDSY 2750	Human Machine Interface	4	<input type="checkbox"/>
IDSY 1230	Industrial Instrumentation	4	<input type="checkbox"/>
IDSY 1310	Industrial Systems Review	3	<input type="checkbox"/>
OR	OR	OR	
IDSY 1190	Fluid Power	4	
PHYS 1111	Introductory Physics I (Prerequisite: ENGL 1101, MATH 1111, MATH 1113)	3	<input type="checkbox"/>
PHYS 1111L	Introductory Physics Lab I (Prerequisite: ENGL 1101, MATH 1111, MATH 1113)	1	<input type="checkbox"/>

6th set of suggested courses

Course		Hours	Completed
IDSY 2800	Advanced Process Control	4	<input type="checkbox"/>
EMET 2900 OR ENGT 2500	Capstone Project OR Engineering Internship	3	<input type="checkbox"/>

Total Credit Hours: 72 Minimum Credit Hours Required for Graduation

Automation Engineering Technology AAS Degree Program Planning Notes:

- Courses for this program are offered at the Whitfield Murray Campus.
- Students should begin this program in Fall semester to stay on track with courses. If a student gets out of cycle or does not begin in the Fall semester, they must take core classes until Fall semester begins.
- Students will need to take motor control courses (IDSY 1110) before any PLC courses (IDSY 1120).

If courses are completed in the order as listed on this eMap, student will earn a Engineering Technology Basics (EBT1) Certificate at the end of the 3rd set.

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

