

# ADVANCED INTEGRATED TECHNOLOGY - AAS

**Offered at:** Ashland Community and Technical College, Madisonville Community College

**Program Plan Number:** 1504997019

## Curriculum Effective Spring Semester

Students enrolled in the Advanced Integrated Technology Programs are required to achieve a minimum grade of "C" or higher in each technical course.

Course	Title	Credits
<b>Required General Education</b>		
Select one of the following three options:		3
MAT 126	Technical Algebra and Trigonometry	
MAT 150	College Algebra	
Higher MAT course		
PHY 151 & PHY 161 or PHY 171	Introductory Physics I and Introductory Physics I Laboratory Applied Physics	4
ENG 101 or ENG 105	Writing I Writing: An Accelerated Course	3
Social/Behavioral Science course		3
Heritage/Humanities course <sup>1</sup>		3
Subtotal		16
<b>Technical Core</b>		
AIT 100	Power Generation and Utilization	4
AIT 110	Power Distribution Systems	3
AIT 120	Equipment Installation	3
AIT 130	Measurement and Instrumentation	4
AIT 140	Industrial Controls I	4
AIT 150	Industrial Controls II	4
AIT 210	Advanced Equipment Maintenance	4
AIT 270	Introduction to Robotics and Programmable Logic Controllers	2
Subtotal		28
<b>Technical Courses</b>		
Advanced Integrated Technology Elective Courses <sup>2</sup>		16
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> HIS 107 Western Culture: Science and Technology II (3 credit hours) suggested

<sup>2</sup> Advanced Integrated Technology approved elective list (<https://catalog.kctcs.edu/programs-of-study/aas/advanced-integrated-technology/#technicalelectivestext>)

Demonstration of digital literacy is required for the AAS degree.