

# INTEGRATED ENGINEERING TECHNOLOGY - AAS

Offered at: Bluegrass Community and Technical College

Program Plan Number: 1442017019

Course	Title	Credits
<b>General Education Courses</b>		
ENG 101	Writing I	3
PHY 151	Introductory Physics I (or higher level physics course)	3
COM 181	Basic Public Speaking	3
Social/Behavioral Science Course		3
Select one of the following three options:		3-6
MAT 126	Technical Algebra and Trigonometry	
MAT 126 & MAT 150	Technical Algebra and Trigonometry and College Algebra <sup>1</sup>	
MAT 150 & MAT 155	College Algebra and Trigonometry <sup>1</sup>	
Heritage/Humanities		3
<b>Subtotal</b>		<b>18-21</b>
<b>Technical Courses</b>		
CAD 100	Introduction to Computer Aided Design	3
IET 104	Blueprint Reading/Schematics	2
IET 110	Welding and Fabrication	4
IET 111	Lean Safety Culture	1
IET 112	Lean Manufacturing Concepts -TPS	1
IET 113	Lean 5S Methodology	1
IET 114	Lean Problem Solving Methodology	1
IET 115	Lean Machine Reliability	1
IET 121	Basic Electricity	4
IET 128	Introduction to Machine Tool Operation	3
or CMM 110	Fundamentals of Machine Tools - A	
IET 202	Motor Controls and Sensing Devices	4
IET 204	Automated Motor Controls	6
IET 205	Robot Maintenance	4
IET 207	Electro-Hydraulics and Pneumatics	4
IET 208	Mechanical Drives	4
<b>Subtotal</b>		<b>43</b>
<b>Total Credits</b>		<b>61-64</b>

<sup>1</sup> Students planning on completing the University of Kentucky Lean Engineering Technology pathway must complete the courses included above plus the additional 9 hours shown below.

ENG 102 Writing II (3 credit hours)

MAT 170 Brief Calculus with Applications (3 credit hours)

Social & Behavioral Sciences Course