ADDITIVE TECHNOLOGY- AAS

Offered at: Bluegrass Community and Technical College

Program Plan Number: 1506997109

Curriculum Effective Spring Semester

Course	Title	Credits
General Education		
ENG 101	Writing I	3
MAT 126	Technical Algebra and Trigonometry	3
Heritage or Humanities course		3
Natural Science course		3
Social Behavioral course		3
General Education Subtotal		15
Technical Core		
Please select one of the following two options:		9
Option 1: (Recommended for students pursuing the Additive Engineering Track)		
AEG 101 & AEG 102 & AEG 103	Intro to Additive Engineering Technology and CAD for Additive Engineering and Slicing and Programming Basics	
Option 2: (Recommended for students pursuing the Additive Manufacturing Engineering Track)		
DPT 100 & DPT 150 & DPT 281	Introduction to 3D Printing Technology and Introduction to Engineering Mechanics for 3D Printing and Special Projects	
BAS 160 or AEG 230	Introduction to Business Strategic Business Applications of Additive Engineering	3
Technical Core Subtotal		12
General Education and Technical Core Subtotal		27

Students must complete one of the tracks listed below to complete the AAS requirements.

[1] For a list of suggested industry specific elective list click, here (https://catalog.kctcs.edu/programs-of-study/aas/additive-technology/#electivestext).

Additive Engineering Technology Track

Offered at: Bluegrass Community and Technical College

Program Plan Number: 150699719

Course	Title	Credits
General Education and Technical Core Subtotal		27
AEG 104	Introduction to 3D: From Capture to Creation	3
AEG 201	Extrusion 3D Printing Hardware	4
AEG 202	UV Curing and Laser-Based Systems	4
AEG 203	Advanced Additive Hardware and Post-Processing	4
AEG 220	Additive Materials: Properties, Applications, and Sustainability	3
AEG 290	Additive Engineering Technology Internship	3
CIT 105	Introduction to Computers	3
Additive Engineering Electives (see list) [1]		9
Total Credits		**60**

[1] For a full list of approved Additive Engineering track electives, please click, here (https://catalog.kctcs.edu/programs-of-study/aas/additive-technology/#electivestext).

Additive Manufacturing Engineering Track

This program is not currently offered at a KCTCS College.
Program Plan Number: 150699729

Course	Title	Credits
General Education and Technical Core Subtotal		27
COM 205	Business and Professional Communication	3
DPT 104	Advanced Scanning, Processing, and Quality Control	3
DPT 201	Advanced Slicing, Resin, and Fused Filament Fabrication	3
DPT 203	Advanced Additive Manufacturing Hardware and Post Processing	3
DPT 210	Introduction to Powder-Based Additive Manufacturing	3
DPT 212	Additive Manufacturing for Supply Chain and Broad Industry Production	3
DPT 220	Advanced Additive Materials, Properties, and Sustainability	3
DPT 285	Advanced Special Projects	3
DPT Electives or Approved Program Elective by Program Coordinator		9
Total Credits		**60**