

Southwest Virginia Community College
Business, Engineering, Industrial Technology, and
Workforce Solutions Division



<http://www.sw.edu/beit/>

Associates of Applied Science

2019-2020 Degree Completion Plan

Major: Advanced Manufacturing

First Semester (18 Credits)		Credits	Semester	Grade
ENG 111*	College Composition I	3	_____	_____
MTH 111	Basic Technical Mathematics	3	_____	_____
SDV 100	College Success Skills	1	_____	_____
DRF 161	Blueprint Reading I	2	_____	_____
MEC 140	Introduction to Mechatronics	3	_____	_____
IND 160	Introduction to Robotics	2	_____	_____
ELE 140	Basic Electricity and Machinery	4	_____	_____
Second Semester (18 Credits)		Credits	Semester	Grade
MTH 154	Quantitative Reasoning	3	_____	_____
ITE 115	Introduction to Computer Applications and Concepts	3	_____	_____
MEC 155	Mechanisms	2	_____	_____
MEC 165	Applied Hydraulics, Pneumatics and Hydrostatics	3	_____	_____
SAF 127	Industrial Safety	2	_____	_____
MAC 150	Introduction to CAM	2	_____	_____
ETR 286	Principles of Applications of Robotics	3	_____	_____
Third Semester (15 Credits)		Credits	Semester	Grade
Hum.	Humanities Elective	3	_____	_____
MAC 161	Machine Shop Practices I	3	_____	_____
MAC 162	Machine Shop Practices II	3	_____	_____
WEL 160	Gas Metal Arc Welding	3	_____	_____
SSS	Social Science Elective	3	_____	_____
Fourth Semester (18 Credits)		Credits	Semester	Grade
MAC 163	Machine Shop Practices III	3	_____	_____
MAC 164	Machine Shop Practices IV	3	_____	_____
MAC 121	Numerical Controls I	3	_____	_____
MAC 122	Numerical Controls II	3	_____	_____
MEC 230	Mechatronic Process Controls	3	_____	_____
IND 243	Principles & Applications of Mechatronics	3	_____	_____
Total Hours		69		

For additional information:

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