

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



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

Career Studies Certificate Program

2019-2020 Certificate Completion Plan

Major: Mechatronics

First Semester (15 Credits)

| | | Credits | Semester | Grade |
|---------|--|----------------|-----------------|--------------|
| SDV 106 | Preparation for Employment | 1 | _____ | _____ |
| ITE 115 | Introduction to Computer Applications and Concepts | 3 | _____ | _____ |
| ELE 140 | Basic Electricity and Machinery | 4 | _____ | _____ |
| MEC 140 | Introduction to Mechatronics | 3 | _____ | _____ |
| IND 160 | Introduction to Robotics | 2 | _____ | _____ |
| SAF 127 | Industrial Safety | 2 | _____ | _____ |

Second Semester (14 Credits)

| | | Credits | Semester | Grade |
|---------|---|----------------|-----------------|--------------|
| MEC 155 | Mechanisms | 2 | _____ | _____ |
| MEC 165 | Applied Hydraulics, Pneumatics and Hydrostatics | 3 | _____ | _____ |
| MEC 230 | Mechatronic Process Controls | 3 | _____ | _____ |
| IND 243 | Principles and Applications of Mechatronics | 3 | _____ | _____ |
| ETR 286 | Principles and Applications of Robotics | 3 | _____ | _____ |

Total Hours **29**

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Effective Catalog Term: Fall 2017