



## Manufacturing & Technology Program

**Program Option: Mechatronics**  
 Certificate and Degree  
 Option - C0265  
 Mechatronics

| Course                                                                                                        | Title                                                        | Prerequisites   | Total     |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------|-----------|
| AUT 102                                                                                                       | Lean Manufacturing and Industrial Safety (Mfg. Fundamentals) |                 | 3         |
| AUT 104                                                                                                       | Blueprint Reading for Manufacturing                          |                 | 3         |
| AUT 116                                                                                                       | Introduction to Robotics                                     |                 | 3         |
| ELM 200                                                                                                       | Electric Circuits I                                          | MTH 100         | 3         |
| MET 190                                                                                                       | Mechanical Tools I                                           |                 | 4         |
| <b>Diploma Awarded: Certificate (STC) - after completion of the following classes.</b>                        |                                                              |                 | <b>16</b> |
| ELM 201S                                                                                                      | Electric Circuits II                                         | ELM 200         | 3         |
| ELM 202                                                                                                       | Digital Circuits I                                           |                 | 3         |
| ELM 205                                                                                                       | Electronics I                                                | ELM 201S        | 3         |
| ENG 101                                                                                                       | English Composition I                                        | Placement Score | 3         |
| MTH 100                                                                                                       | Intermediate College Algebra                                 | Placement Score | 3         |
| <b>Diploma Awarded: Advanced Certificate (CER) - add the following classes to those listed above.</b>         |                                                              |                 | <b>31</b> |
| ASOC EL                                                                                                       | Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)  |                 | 3         |
| MET 220                                                                                                       | Mechanical Systems I                                         |                 | 3         |
| ELM 215                                                                                                       | Industrial Controls I                                        | ELM 200         | 4         |
| AUT 130                                                                                                       | Fundamentals of Industrial Hydraulics and Pneumatics         |                 | 3         |
| ATM 211                                                                                                       | Introduction to Programmable Logic Controllers               |                 | 3         |
| AHUM EL                                                                                                       | Humanities & Fine Arts Elective (Recmd PHL 206)              |                 | 3         |
| CIS 146                                                                                                       | Computer Applications                                        |                 | 3         |
| PHY 115                                                                                                       | Technical Physics                                            | MTH 100         | 4         |
| SPH 107 or 106                                                                                                | Fundamentals of Public Speaking or Oral Comm. Recmd SPH 107  |                 | 3         |
| <b>Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.</b> |                                                              |                 | <b>60</b> |