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| **Industrial Systems Technology – FAME Advanced Manufacturing****Associate in Applied Science (AAS)** |
| **Semester #** | **Course #** | **Course Name** | **Semester Hours** |
| Semester 1 | ENG 101 | English Composition I | 3 |
|  | INT 101 | DC Fundamentals | 3 |
|  | INT 119 | Principles of Mechanical Measurement and Technical Drawing | 3 |
|  | INT 129 | Industrial Safety and Maintenance Techniques | 3 |
|  | INT 140 | F.A.M.E. Manufacturing Core Exercise 1, Safety Culture | 1 |
|  | ORT 100 | Orientation for Career Students | 1 |
|  |  |  | Semester Total: 14 |
| Semester 2 | INT 103 | AC Fundamentals | 3 |
|  | INT 113 | Industrial Motor Control I | 3 |
|  | INT 117 | Principles of Industrial Mechanics | 3 |
|  | INT 118 | Fundamentals of Industrial Hydraulics and Pneumatics | 3 |
|  | INT 142 | F.A.M.E. Manufacturing Core Exercise 2, Workplace Visual Organization | 1 |
|  |  |  | Semester Total: 13 |
| Semester 3 | ELT 117 | AC/DC Machines | 3 |
|  | INT 208 | Advanced Process Simulation | 3 |
|  | INT 213 | Industrial Motor Control II | 3 |
|  | INT 144 | F.A.M.E. manufacturing Core Exercise 3, Lean Manufacturing | 1 |
|  | MTH 116 | Mathematical Applications | 3 |
|  |  |  | Semester Total: 13 |
| Semester 4 | INT 127 | Principles of Industrial Pumps and Piping Systems | 3 |
|  | INT 132 | Preventive and Predictive Maintenance | 3 |
|  | INT 139 | Introduction to Robot Programming | 3 |
|  | INT 146 | F.A.M.E. Manufacturing Core Exercise 4, Problem-Solving | 1 |
|  | INT 184 | Introduction to Programmable Logic Controllers (PLC’s) | 3 |
|  | PHS 112  | Physical Science II | 4 |
|  |  |  | Semester Total: 17 |
| Semester 5 | INT 148 | F.A.M.E. Manufacturing Core Exercise 5, Machine Reliability | 1 |
|  | INT 253 | Industrial Robotics | 3 |
|  | INT 284 | Advanced programmable Logic Controllers (PLC’s) | 3 |
|  | WDT 107 | SMAW Fillet/OFC/PAC/CAC | 3 |
|  |  | History, Social and Behavioral Sciences Elective | 3 |
|  |  | ELIGIBLE FOR:* AAS – Advanced Manufacturing
 | Semester Total: 13Program Total: 70 |