

# ADVANCED MANUFACTURING ASSOCIATE IN APPLIED SCIENCE DEGREE (MANUF D563)

FCC	LTC	OCC	<b>✓ WVC</b>
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The Advanced Manufacturing degree promotes and enhances the skills of students, helping them to succeed within the advanced manufacturing industry. This program requires extensive applied technical knowledge, combined with strong communication skills, to effectively interact with individuals as well as groups and teams. The program represents education and skill building toward a broader advanced manufacturing theory.

<b>First Semester</b>			<b>Credit Hours 19</b>
EDR 1202	Mechanical Blueprint Reading	4	
GEN 1298	Career Pathways to Success	V1	
MAC 1203	Precision Measurement	3	
MAN 1201	Introduction to Machining	5	
MAN 1202	Industrial Safety	V2	
MAN 1211	Industrial Electricity	4	

<b>Second Semester</b>			<b>Credit Hours 16</b>
CAD 1210	Computer Aided Drafting I	3	
ENG 1111	Composition I <sup>1</sup> <b>OR</b>		
ENG 1201	Communications <sup>1</sup>	3	
MAC 2231	Introduction to CNC	3	
MAN 1215	Mechanical Drives	3	
MTH 1201	Technical Mathematics <sup>1</sup>	V4	

<b>Third Semester</b>			<b>Credit Hours 15</b>
DAP 1201	Business Computer Systems	3	
GEN 2297	Employment Skills <sup>1</sup>	V2	
MAN 2202	Leadership	V3	
MAN 2211	Programmable Logic Controllers	4	
WEL 1201	Basic Welding	3	

<b>Fourth Semester</b>			<b>Credit Hours 13</b>
MAN 1204	Manufacturing Materials & Processes	4	
MAN 2201	Quality Concepts and Techniques	V2	
PSC 1101	Intro to Physical Science <sup>1</sup>	4	
PSY 1101	General Psychology <sup>1*</sup> <b>OR</b>		
PSY 1103	Business Psychology <sup>1*</sup>	<u>3</u>	

**Total Credit Hours** **63**

<sup>1</sup>General Education Hours (16)

\*This course satisfies the IECC human diversity requirement.

**Recommended Electives:**

EGR 1131	Engineering Graphics & Design	3
MAC 1208	Intermediate Machine Processes	6
MAC 2232	Advanced CNC Training	3
MAN 1205	Predictive Maintenance	4
MAN 1206	Hydraulics & Pneumatics	4
MAN 1207	Introductions to HVAC	3
MAN 1210	Industrial Materials	3
MAN 1221	Motors/Motor Controls	V4
MAN 2203	Organizational Behavior	3
MAN 2206	Introduction to Design Concepts	4
MAN 2208	3D Contouring	3
MAN 2210	Stamping and Molding	6
MAN 2212	Industrial Automation I	3
MAN 2214	Industrial Automations II	4
MAN 2215	Robotics & Vision Systems	4