

## MANUFACTURING MANAGEMENT

### Program Overview

The constantly changing manufacturing sector calls for well-trained, adaptable supervisors. Businesses need first- and second-line supervisors who are capable of interpreting policies to employees, setting work goals, improving communications and interpersonal relationships, maintaining discipline, and motivating employees.

MCC's Manufacturing Management program prepares students for these manufacturing leadership positions. The curriculum is designed for those who have experience in manufacturing and want to gain the managerial skills necessary for promotion.

Offerings include two certificates and an associate's degree. The degree program covers supervisory skills; manufacturing materials, processes and procedures; and managerial functions, focusing on actual workplace

issues. Later courses provide more concentrated study in production and inventory control, plant layout and material handling, personnel relations, cost and quality control, and maintenance and safety practices.

The courses in this program are arranged in a sequence that provides optimal learning opportunities. Students are required to follow the integrated program sequence.

For more information, visit: [www.mchenry.edu/manufacturing](http://www.mchenry.edu/manufacturing)

**The primary purpose of an Associate in Applied Science degree is to prepare students for employment. The AAS degree is not designed specifically for transfer; however, there are opportunities to apply some coursework or the whole degree to a bachelor's degree program. For more information, see an academic advisor and the department chair.**

### Requirements for the Associate in Applied Science (AAS) in Manufacturing Management

Curriculum: OCC 150	Credit Hours		
<b>General Education Core</b>			
<b>Communications</b> 2 courses ENG 151 and SPE 151 recommended	6	(3) ENG 105 Technical Communications (3) ENG 151 Composition I	(3) ENG 152 Composition II (3) SPE 151 Intro to Speech
<b>Humanities &amp; Fine Arts, Social &amp; Behavioral Sciences</b> Select 1 course from Humanities & Fine Arts <b>and</b> 1 course from Social & Behavioral Sciences PHI 251 and SOC 151 recommended	6	<b>Humanities &amp; Fine Arts</b> <i>Select 1 course from the following prefixes or course numbers:</i> ART (does not include: 166, 190, 290, 299) (3) AET 141 Interior Design I (3) AET 142 History of Interiors (3) AET 241 Interior Design II (3) DGM 168 Computer Art I ENG (does not include: 088-099, 105, 151, 152) FRE GER (3) GRA 167 Graphic Design I (3) JRN 152 Intro to Mass Communication (3) JRN 155 Newswriting (3) JRN 165 Intro to Broadcasting (3) JRN 170 Feature Writing (3) JRN 180 Intro to Film MUS (does not include: 100, 104, 111, 160, 161, 162, 201-218) PHI	<b>Humanities &amp; Fine Arts cont'd.</b> (4) SPA 151 Elementary Spanish I (4) SPA 252 Intermediate Spanish II (4) SPA 152 Elementary Spanish II (4) SPA 251 Intermediate Spanish I (3) SPE 155 Interpersonal Communication (3) SPE 161 Small Group Communication (3) SPE 251 Intercultural Communication (3) SPE 265 Fundamentals of Oral Interpretation THE  <b>Social &amp; Behavioral Sciences</b> <i>Select 1 course from the following prefixes or course numbers:</i> ANT ECO (3) GEG 202 Geog. of the Developed World (3) GEG 203 Geog. of the Developing World (3) GEG 204 Economic Geography HIS PLT PSY SOC

<b>Mathematics, Physical or Life Sciences, Technology</b> Select 1 course from Mathematics, Physical or Life Sciences, <u>or</u> Technology MAT 106 recommended	3	<b>Mathematics</b> MAT (100 level or above)  <b>Physical or Life Sciences</b> <i>Select from the following prefixes or course numbers:</i> BIO CHM EAS (4) GEG 107 Physical Geography (3) GEG 123 Energy Resources (3) GEG 220 The Global Environment	<b>Physical or Life Sciences cont'd.</b> GEL (3) HFE 250 Nutrition for Wellness (4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science PHY  <b>Technology</b> (3) GRA 100 Adobe Design Suite (3) PRG 105 Programming Logic (3) WEB 105 Web Fundamentals
<b>Program Core</b>	39	(3) IMT 102 Manufacturing Processes (3) IMT 103 Materials of Industry (3) IMT 104 Blueprint Reading for Manufacturing (3) IMT/MGT 110 Supervisory Responsibility (3) IMT 112 Training the Trainer (3) IMT 116 Industrial Safety Management (3) IMT 117 Supply Chain Management I (3) IMT 120 Meteorology for Quality <b>or</b> (3) IMT 121 Quality Practices & Management	(3) IMT 135 Maintenance Management (3) IMT 210 Continuous Improvement Practices (3) IMT 215 Supply Chain Management II (3) IMT 261 Technical Portfolio Design I (3) IMT 262 Technical Portfolio Design II <b>or</b> (3) IMT 250 Manufacturing Internship
<b>Program Electives</b>	8-9	<i>Select from the following prefixes and courses:</i> AET IMT	(3) AOM 131 Spreadsheet Applications I (3) CDM 110 Computer Literacy for Windows (3) MGT 150 Principles of Management (3) MGT 210 Human Resources Management
<b>Total Degree Credits</b>	62-63		

**Other AAS Graduation Requirements:**

- 2.0 minimum cumulative GPA at MCC upon completion of program
- 15 semester hours of program-specific coursework taken at MCC
- Completion of graduation application
- Completion of end-of-program assessment as directed by this department

## Requirements for the Manufacturing Processes Certificate

Curriculum: OCC 152	Credit Hours	
<b>General Education Core</b>		
<b>Communications</b> 2 courses ENG 151 and SPE 151 recommended	6	(3) ENG 105 Technical Communications (3) ENG 151 Composition I (3) ENG 152 Composition II (3) SPE 151 Intro to Speech
<b>Humanities &amp; Fine Arts, Social &amp; Behavioral Sciences</b> Select 1 course from Humanities & Fine Arts and 1 course from Social & Behavioral Sciences	6	<p><b>Humanities &amp; Fine Arts</b> <i>Select 1 course from the following prefixes or course numbers:</i> ART (does not include: 166, 190, 290, 299) (3) AET 141 Interior Design I (3) AET 142 History of Interiors (3) AET 241 Interior Design II (3) DGM 168 Computer Art I ENG (does not include: 088-099, 105, 151, 152) FRE GER (3) GRA 167 Graphic Design I (3) JRN 152 Intro to Mass Communication (3) JRN 155 Newswriting (3) JRN 165 Intro to Broadcasting (3) JRN 170 Feature Writing (3) JRN 180 Intro to Film MUS (does not include: 100, 104, 111, 160, 161, 162, 201-218) PHI</p> <p><b>Humanities &amp; Fine Arts cont'd.</b> (4) SPA 151 Elementary Spanish I (4) SPA 252 Intermediate Spanish II (4) SPA 152 Elementary Spanish II (4) SPA 251 Intermediate Spanish I (3) SPE 155 Interpersonal Communication (3) SPE 161 Small Group Communication (3) SPE 251 Intercultural Communication (3) SPE 265 Fundamentals of Oral Interpretation THE</p> <p><b>Social &amp; Behavioral Sciences</b> Select 1 course from the following prefixes or course numbers: ANT ECO (3) GEG 202 Geog. of the Developed World (3) GEG 203 Geog. of the Developing World (3) GEG 204 Economic Geography HIS PLT PSY SOC</p>
<b>Mathematics, Physical or Life Sciences, Technology</b> Select 1 course from Mathematics, Physical or Life Sciences, or Technology MAT 106 recommended	3	<p><b>Mathematics</b> MAT (100 level or above)</p> <p><b>Physical or Life Sciences</b> Select from the following prefixes or course numbers: BIO CHM EAS (4) GEG 107 Physical Geography (3) GEG 123 Energy Resources (3) GEG 220 The Global Environment</p> <p><b>Physical or Life Sciences cont'd.</b> GEL (4) HRT 103 Intro to Plant Science (4) HRT 105 Intro to Soil Science PHY</p> <p><b>Technology</b> (3) GRA 100 Adobe Design Suite (3) PRG 105 Programming Logic (3) WEB 105 Web Fundamentals</p>
<b>Program Core</b>	24	<p>(3) IMT 102 Manufacturing Processes (3) IMT 103 Materials of Industry (3) IMT 104 Blueprint Reading for Manufacturing (3) IMT/MGT 110 Supervisory Responsibility (3) IMT 112 Training the Trainer (3) IMT 116 Industrial Safety Management</p> <p>(3) IMT 121 Quality Practices &amp; Management <b>or</b> (3) IMT 120 Metrology for Quality (3) IMT 261 Technical Portfolio Design I <b>or</b> (3) IMT 250 Manufacturing Internship</p>
<b>Program Electives</b>	5-6	<i>Select from the following prefixes or course numbers:</i> AET elective subject to department chair approval (3) AOM 131 Spreadsheet Applications I (3) CDM 110 Computer Literacy for Windows
<b>Total Degree Credits</b>	44-45	

For more information, visit: [www.mchenry.edu/manufacturingprocess](http://www.mchenry.edu/manufacturingprocess)

## Requirements for the Manufacturing Supervision Certificate

Curriculum: OCC 151	Credit Hours		
<b>Program Core</b>	15	(3) IMT 102 Manufacturing Processes (3) IMT 103 Materials of Industry (3) IMT/MGT 110 Supervisory Responsibility	(3) IMT 112 Training the Trainer (3) IMT 116 Industrial Safety Management
<b>Program Electives</b>	12	<p><i>Select 2 courses from the following (ENG 151 and SPE 151 recommended):</i>            (3) ENG 105 Technical Communications            (3) ENG 151 Composition I            (3) ENG 152 Composition II            (3) SPE 151 Intro to Speech</p> <p><i>Select 1 course or 3 credits from the following prefixes or courses:</i>            (MAT 106 recommended)            BIO, CHM, EAS, GEL, MAT, PHY            (4) GEG 107 Physical Geography            (3) GEG 123 Energy Resources            (3) GEG 220 Global Environment            (4) HRT 103 Intro to Plant Science            (4) HRT 105 Intro to Soil Science</p>	<p><i>Select 1 course or 3 credits from the following prefixes or course:</i>            AET            IMT            (3) CDM 110 Computer Literacy for Windows</p>
<b>Total Certificate Credits</b>	27		

For more information, visit: [www.mchenry.edu/manufacturingsupervision](http://www.mchenry.edu/manufacturingsupervision)

### **Other Certificate Graduation Requirements:**

- 2.0 minimum cumulative GPA at MCC upon completion of program
- For certificates of less than 12 credit hours, all required credits must be completed through MCC coursework. For all other certificates, one-half of the minimum credit hours required must be completed through MCC coursework.

- Completion of graduation application
- Completion of end-of-program assessment as directed by this department for OCC 152 Manufacturing Processes Certificate

**For more information, contact the department chair: (815) 479-7521.**