Manufacturing Career Ladder

BACHELORS DEGREE Courses

To complete the requirements of the BMM degree, students in this program must complete the A.S degree in Manufacturing Technology, 20 additional manufacturing core credits from the 4 certificate programs defined in the brochure, plus 40 credits of upper division (3000 & 4000) credits with at least 30 from the University of Minnesota.

University of Minnesota Crookston

At least 30 from the University of Minnesota
Total= 120 Credits for BMM Degree

This program is offered in partnership with University of Minnesota - Crookston.

Managerial Guide to the Career Advising Portfolio

Corporate Learning Division

Customized Training Division

Level: 40 credits

Program Core Requirements

Semester

Bach. of Mfg. Mgmt. Degree (BMM)
Upper Division 40 credits

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Manufacturing Career Ladder

CERTIFICATE PROGRAMS Courses

Lean Manufacturing/Continuous Improvement 17 Credit Certificate
- Introduction to Cellular Manufacturing - MANF 2311 3 credits
- Principles of Lean Manufacturing - MANF 2520 3 credits
- Total Quality Systems & SPC in a Mfg Environment - MANF 2505 3 credits
- Value Stream Mapping - MANF 2530 2 credits
- Production and Operation Management - MANF 2510 2 credits
- Facilitating Teams in a Mfg Environment - MANF 2540 3 credits

Election Courses (choose one of the following)
- Principles of Lean Manufacturing - MANF 2520 2 credits
- Business Computer Skills - CPR 1104 3 credits

Production and Inventory Management 16 Credit Certificate
- Basic Supply Chain Management - PRIM 2500 2 credits
- Master Planning of Resources - PRIM 2510 2 credits
- Detailed Scheduling and Planning - PRIM 2520 2 credits
- Execution and Control of Operation - PRIM 2530 2 credits
- Strategic Management of Resources - PRIM 2540 2 credits
- Technical Report Writing - ENGL 2207 2 credits
- Value Stream Mapping - MANF 2530 2 credits
- Principles of Lean Manufacturing - MANF 2520 2 credits

Manufacturing Principles 12 Credit Certificate
- SS System - MANF 1500 1 credit
- Measuring Tools - MANF 1510 2 credits
- Print Reading - MANF 1520 2 credits
- Organizational Communications - MANF 1540 2 credits
- Machine Operations - MANF 1530 1 credit
- Tools of Quality - MANF 2500 2 credits
- Production & Operations Management - MANF 2510 2 credits

Supervisory Leadership 18 Credit Certificate
- Business Communications - BUSN 1140 3 credits
- Principles of Management - BUSN 2210 3 credits
- Supervision - MKTG 2210 3 credits
- Interpersonal Communications - 9CH 1103 3 credits
- Election Courses (choose two of the following)
- Human Relations - SSCI 2101 3 credits
- Leadership - BUSN 2231 3 credits
- Legal Environment of Business - BUSN 2218 3 credits
- Global Business - MKTG 2220 3 credits

ASSOCIATE OF SCIENCE DEGREE

30 credits required from 2 or more Certificate programs

Lean Manufacturing/Continuous Improvement 17 credits
- Production and Inventory Management 16 credits
- Manufacturing Principles 12 credits
- Supervisory Leadership 18 credits

GENERAL EDUCATION

30 credits of General Education required from the MN transfer curriculum from a minimum of these six areas:

Area 1 - Communications (9 cr)
Area 2 - Critical Thinking (3 cr)
Area 3 - Natural Science (6 cr)
Area 4 - Math & Logic (3 cr)
Area 5 - History & Social Science (9 cr)
Area 6 - Ethical/Civic Respion (3 cr)

Northland College ● Center for Outreach & Innovation ● East Grand Forks, MN 800-451-3441 ● Thief River Falls, MN 800-959-6282
www.northlandcollege.edu/business_industry