



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**NTC Program: MECHANICAL DESIGN**

**MSU Moorhead Program: Operations Management BS**

**Minimum GPA for admission: 2.0**

**Initial effective date:**

**General Education Courses**

NTC			MSU Moorhead		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-804-195	College Algebra with Apps (3 cr.) <u>OR</u>	3 or 4		MATH 127 College Algebra <u>OR</u>	0 - 3
10-804-118	Intermediate Algebra with Apps (4 cr.)			NA	
10-806-154	General Physics 1	4		PHYS 160/ 160L College Physics I	4
10-801-195	Written Communication <u>OR</u>	3		Goal Area 1 <u>OR</u>	3
10-801-136	English Composition 1			ENGL 101 English Composition	
10-801-197	Technical Reporting	3		NA	0
10-809-172	Intro to Diversity <u>OR</u>	3		Goal Area 7 <u>OR</u>	3
10-809-196	Intro to Sociology			SOC 110 Intro to Sociology	
10-809-199	Psychology of Human Relations <u>OR</u>	3		PSY 220 Social Behavior	3
10-809-198	Intro to Psychology			PSY113 General Psychology	
<b>Total general education credits earned:</b>		<b>19-20</b>			
Total transferable general education credits:		13-16		<b>Total general education credits accepted:</b>	<b>13 - 16</b>

**Occupational Courses**

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-606-105	Technical Drafting/CAD	2			
10-606-128	Technical Detailing	2			
10-606-132	Materials of Industry	2			
10-606-160	Manufacturing Processes - Machining	2			
10-606-106	2D AutoCad Applications	2			
10-606-111	Applied Mechanics for Technicians	3			
10-606-115	Machine Design 1	2			
10-606-162	Manufacturing Processes - Fabrications	2			
10-606-163	Strength of Materials	3			
10-606-107	Designing for Manufacturability	4			
10-606-114	Mechanisms	4			
10-606-117	Machine Design 2	3			
10-612-120	Fluid Power Systems 1: Fundamentals	1			
Technical credits accepted in transfer as a block. Additional credits will be accepted as unrestricted elective credits.					30 + 13

10-606-108	Geometric Dimensioning & Tolerancing Fund.	1		
10-606-109	Computer Apps & Analysis for Engineers	1		
10-606-116	Tooling & Production	2		
10-606-125	Design Problems	3		
10-606-130	Autodesk Inventor 3D CAD Software	2		
10-606-133	SolidWorks 1	1		
10-606-134	SolidWorks 2	1		
	<b>Total occupational course credits earned:</b>	<b>43</b>		
	<b>Total credits required for graduation:</b>	<b>62-63</b>	<b>Total occupational course credits accepted:</b>	<b>43</b>
	<b>Total transferable credits:</b>	<b>56-59</b>	<b>Total credits accepted at MSU Moorhead:</b>	<b>56-59</b>

**Courses needed to complete degree at MSU Moorhead:**

Course No.	Course Title	Credits
	Remaining MnTC/ LASC Goal Requirements*	26 - 29
	ACCT 230 Principles of Accounting I	3
	MGMT 260 Principles of Management	3
	OM 380 Methods Improvement	3
	OM 393 Occupational Safety & Health	3
	OM 395 Computer Applications for Technologists	3
	OM 470 Purchasing & Sourcing Mgmt	3
	OM 482 Quality Planning & Implementation	3
	OM 483 Cost Analysis	3
	OM 485 Production & Inventory Management	3
	OM 469 Internship	3
	PMGT 300 Project Management & Scheduling	3
	PMGT 385 Process Leadership	3
	Electives (Consult your MSUM advisor.)	12
*MATH 127	College Algebra	0 - 3
*MATH 234	Intro to Probability & Statistics	3
*ECON 202	Principles of Economics I: Micro	3
	*These courses are required, but may also count toward LASC	
	<b>Total credits needed at MSU Moorhead to complete degree:</b>	<b>62 - 65</b>

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at MSU Moorhead for the most current transfer information.

**Updated on: 07/22/19**