



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		MATH 127 College Algebra OR	3
10-804-118	Intermediate Algebra with Apps (4 cr.)			NA	0
10-804-196	Trigonometry with Apps	3		Goal 4 Course	3
10-806-154	General Physics 1	4		PHYS 160/ 160L College Physics I	4
10-801-195	Written Communication OR	3		Goal Area 1 OR	3
10-801-136	English Composition 1			ENGL 101 English Composition I	
10-801-197	Technical Reporting	3		NA	0
10-809-196	Intro to Sociology	3		SOC 110 Intro to Sociology	3
10-809-198	Intro to Psychology <u>OR</u>	3		PSY 113 General Psychology OR	3
10-809-199	Psychology of Human Relations			Goal Area 5	
Total general education credits earned:		22			
Total transferable general education credits:		19		Total general education credits accepted:	19

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-103-242	Excel 2016 Level 1	1		NA	0
10-606-105	Technical Drafting/CAD	2			
10-606-128	Technical Detailing	2			
10-606-160	Materials of Industry 1	1			
10-606-178	Materials of Industry 2	1			
10-606-160	Manufacturing Processes - Machining	2			
10-606-103	Mechanical Design Workforce Preparedness	1			
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			
10-606-100	Solidworks for Mechanical Design	2		Technical credits accepted in transfer as a block. Additional credits will be accepted as unrestricted	30 + 15

10-606-107	Designing for Manufacturability	4		elective credits.	
10-606-114	Mechanisms	4			
10-606-117	Machine Design 2	3			
10-612-120	Fluid Power Systems 1: Fundamentals	1			
10-612-121	Fluid Power Systems 2: Fundamentals of Pneumatics	1			
10-612-122	Fluid Power Systems 3: Design & Maintenance	1			
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			
	Total occupational course credits earned:	46			Total occupational course credits accepted:
	Total credits required for graduation:	68			
	Total transferable credits:	64		Total credits accepted at MSU Moorhead:	64

Courses needed to complete degree at MSU Moorhead:

Course No.	Course Title	Credits
ACCT 230	Principles of Accounting I	3
ENGL 387	Technical Report Writing	3
MGMT 260	Principles of Management	3
OM 380	Methods Improvement	3
OM 393	Occupational Safety & Health	3
OM 483	Cost Analysis	3
OM 395	Computer Applications for Technologists	3
OM 469	Internship	3
OM 482	Quality Planning & Implementation	3
OM 485	Production & Inventory Management	3
PMGT 385	Process Leadership	3
PMGT 300	Project Management & Scheduling	3
MATH 127	College Algebra*	0-3
MATH 234	Intro to Probability & Statistics	3
ECON 202	Principles of Economics I: Micro	3
	MnTC/ Gen Ed Goal Area	23
Total credits needed at MSU Moorhead to complete degree:		68

* If College Algebra (10-804-195) is completed at NTC then the credits will satisfy Math 127 at MSU Moorhead.

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: 6/14/17