



TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS

NTC Program: Mechanical Design Engineering Technology

Michigan Tech Program: Mechanical Engineering Technology

Minimum GPA for admission: 3.0 to qualify for in-state tuition

Initial effective date: Fall 2015

General Education Courses

NTC			Michigan Tech		
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	MA 1030	College Algebra I	3
10-804-118	Intermediate Algebra with Apps (4 cr.)				
10-806-154	General Physics 1	4	PH 1110	College Physics 1 + PH 111	4
10-801-195	Written Communication <u>OR</u>	3	HU 1XX5 <u>OR</u>	HASS Communication/Composition	3
10-801-136	English Composition 1		UN 1015	Composition	
10-801-197	Technical Reporting	3	HU 1XX5	HASS Communication/Composition	3
10-809-172	Intro to Diversity <u>OR</u>	3	UN 1025	Global Issues <u>OR</u>	3
10-809-196	Intro to Sociology		SS 2700	Intro to Sociology	
10-809-199	Psychology of Human Relations <u>OR</u>	3	PSY 2000	Intro to Psychology <u>OR</u>	3
10-809-198	Intro to Psychology		PSY 2000	Principles of Psychology	
Total general education credits earned:		19-20			
Total transferable general education credits:		19	Total general education credits accepted:		19

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-606-105	Technical Drafting/CAD	2	ENG 1003	Intro to Computer Aided Draft	1
			ENG 1XXE	ENG Elective	1
10-606-128	Technical Detailing	2	TRU XXXX	Unassigned Transfer	2
10-606-132	Materials of Industry	2	MET 1540	Materials Science	2
10-606-160	Manufacturing Processes - Machining	2	MET 2XXE	Technical elective	2
10-606-106	2D AutoCad Applications	2	MET 1020	Technology Computer Applications	3
10-606-133	SolidWorks 1	1	TRU XXXX	Unassigned Transfer	1
10-606-134	SolidWorks 2	1			
10-606-163	Strength of Materials	3	MET 2120	Statics and Strength of Materials (w/606-111)	4
10-606-111	Applied Mechanics for Technicians	3	MET 2XXE	Technical elective	2
10-606-115	Machine Design 1	2	MET 3242	Machine Design 1	2
10-606-162	Manufacturing Processes - Fabrications	2	MET 2153	Machine Tool Funds & Apps	2
10-606-107	Designing for Manufacturability	4	MET 3500	Manufacturing Processes	4

10-606-114	Mechanisms	4	MET 1XXE	MET Elective	4
10-606-117	Machine Design 2	3	MET 3451	Machine Design II	3
10-612-120	Fluid Power Systems 1: Fundamentals	1	MET 2XXE	Technical elective	1
10-606-108	Geometric Dimensioning & Tolerancing Fund.	1	MET 2400	Practical Applications with Parametric Modeling (w/606-130)	3
10-606-130	Autodesk Inventor 3D CAD Software	2			
10-606-109	Computer Apps & Analysis for Engineers	1	MET 4210	Applied Quality Techniques (w/606-116)	3
10-606-116	Tooling & Production	2			
10-606-125	Design Problems	3	TRU XXXX	Unassigned Transfer	3
	Total occupational course credits earned:	43		Total occupational course credits accepted:	43
	Total credits required for graduation:	62-63			
	Total transferable credits:	62		Total credits accepted at MTU:	62

Additional NTC courses to take to transfer to MTU:

Courses needed to complete degree at MTU:

Course No.	Course Title	Credits	Course No.	Course Title	Credits
			CH 1150 CH 1151	University Chemistry & Lab	4
			EC 3400	Economic Decision Analysis	3
10-660-123	Industrial Ele Tech 1- Direct Current Ele Characteristics	1	EET 1411	Basic Electronics	4
10-660-124	Industrial Ele Tech 2- Alternating Current Ele Characteristic	1			
10-660-125	Industrial Ele Tech 3- Electronic Circuits and Devices	1			
10-660-127	Industrial Ele Tech 5- Advanced Electrical Characteristics	1			
			EET 2233	Electrical Machinery	4
			EET 3131	Instrumentation	3
			HU 3120	Technical and Professional Communication	3
10-804-196	Trigonometry w/Apps*	3	MA 1031	College Algebra II with Trigonometry	3
10-804-198	Calculus	4	MA 1160	Calculus with Technology 1	4
			MA 2160	Calculus with Technology 2	4
10-804-189	Introductory Statistics (transfers as MA 2710)	3	MA 2720	Statistical Methods (sub with MA2710, 1 TW)	4
			MET 2130	Dynamics	3
			MET 3400	Applied Fluid Mechanics	3
			MET 3700	Applied Thermodynamics	3
			MET 4300	Applied Heat Transfer	3
			MET 4360	Thermal-Fluids Lab	1
			MET 4460	Product Design and Development	2
			MET 4575	Senior Project 1	2
			MET 4675	Senior Project 2	2
			MET 4999	Professional Practice Seminar	1

10-809-103	Thinking Critically & Creatively*	3	TA 2XX4	Critical and Creative Thinking - Core elective	3
10-809-159	Abnormal Psychology	3	HASS*	Humanities/Fine Arts elective	3
			HASS *	Any list - elective	3
			OSM 3000	Operations & Supply Chain Management	3
10-806-144	College Physics 2	3	PH 1200	College Physics II & Lab (1 TW)	1
			PH 1240		3
10-809-172	Introduction to Diversity Studies	3	UN 1025	Global Issues (Gen Ed Core)	3
			PE	Co-curricular activities (units)	3
			Total credits needed at MTU to complete degree		78

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

* Six credits of HASS must be at the 3000-level or higher.

Thirty (30) semester credit hours of advanced level courses (3000 or higher) must be completed at Michigan Tech (including Michigan Tech Online).

**The scholarship is equal to the difference between nonresident and resident tuition for a maximum of 10 semesters of undergraduate study

Michigan Tech General Education Requirements per the following lists:

<https://www.mtu.edu/registrar/faculty-staff/advisors/gen-ed/>

NTC students who meet the following criteria below are eligible for a scholarship that makes up the difference between non-resident and resident tuition. The award is available for a maximum of ten semesters of undergraduate study.

* The student must be a U.S. citizen and resident of any territory or state except Michigan.

* The student must have completed two or more semesters of college as a full-time student (with the most recent completed semester being at NTC) prior to enrolling at Michigan Tech and have a cumulative grade point average of 3.0 or higher (4.0 scale) to be eligible for the award.

* The student must be accepted into a degree seeking program at Michigan Tech.

* The student must maintain a minimum cumulative grade point average of 2.50 at Michigan Tech at the end of each spring semester to be eligible for scholarship renewal.

* The student must maintain continuous full-time undergraduate enrollment and acceptable social behavior according to Michigan Tech's academic policies and procedures.

* Recipients are eligible for need-based aid and/or private scholarship funds; however, they are not eligible for the National Scholars Program, Alumni Legacy Award or the Military Family Education Award.

Updated on: 09/25/19