PROGRAM ARTICULATION TABLE

	Mid-State Technical College	University of Wisconsin-Stout
Program name	Mechanical Design Technology	Engineering Technology: Mechanical Design concentration
Award Type (e.g., AAS)	AAS	BS
Credit Length	64 credits	121 credits
Program admission requirements (if any)		

SECTION A - General Education

Mid-State Technical College			University of Wisconsin Stout						
Course Prefix & Number	Course Name	Credits	Course Prefix & Number	Course Name	GE	RES GLP	Credits Applied	Credits NOT Applied	Equiv Sub Wav
General Education									
801-136	English Composition 1	3	*ENGL 101	Composition 1	COMSK		3		Equiv
801-196 **or** 801-198	Oral/Interpersonal Communication **or** Speech	3	^COMST-GXX	Communication Studies Stout Core	COMSK		3		Equiv
804-196	Trigonometry with Applications	3	MATH-121	Trigonometry	ARNS GE SEL		(1) 2		Equiv
~809-172	Intro to Diversity Studies	3	SOC-GAX	Sociology Stout Core	SBSC	RES	3		Equiv
~806-154	General Physics	4	PHYS-241	College Physics 1	ARNS		4		Equiv
809-198 **Or** 809-188	Intro to Psychology **Or** Developmental Psychology	3	PSYC-110 **Or** HDFS-255	Intro to Psychology **Or** Lifespan Human Dev.	SBSC		3		Equiv
	General Education Total	**19**			**Section A Subtotal**		**19**	**0**	

Special Notes, if any: *A grade of C- or better is required to move on to ENGL 102 Composition 2.

^ Per a UW-Stout transfer rule this course will satisfy UW-Stout's COMST-100 Stout Core requirement.

~ Recommended course based on UW-Stout ET curriculum.

(_) This one credit will make up for 1 credit short in ARNS due to PHYS-241 being 4 credits instead of 5.

SECTION B – Major, Concentration, Emphasis, Electives, or Other

			Program Core					
606-163 **And** 420-101	Materials of Industry **And** Manufacturing Processes – Machining	2 **And** 2	ETECH-150 **And** ETECH-XXX	Intro to Engineering Materials **And** Engineering Technology Elective		3	1	Equiv
623-106 **And** 606-106 **And** 623-114	Intro to AutoCAD **And** Intermediate AutoCAD **And** Intro to Inventor	1 **And** 2 **And** 1	ETECH-201 **And** ETECH-XXX	Communication of Engineering Design 1 **and** Engineering Technology Elective		3	1	Equiv
606-117	Designing for Manufacturability	3	ETECH-205	Design for Industry		3		Equiv
462-120	Industrial Hydraulics and Pneumatics	3	ETECH-XXX	Engineering Technology Elective ***Students will need to complete at 1 cr. independent study at UW-Stout based on heat transfer. Once that is finished this course will sub for ETECH-260.***		3		Sub
623-171	Lean Six Sigma	3	INMGT-XXX	Industrial Management Elective ***Will sub for INMGT-325: Quality Management***		3		Sub
			Mechanical Design Concentration					
606-114 **And** 606-115	Machine Design 1 **And** Machine Design 2	2 **And** 3	ET-332 **And** ET-XXX	Design of Machine Components **And** Engineering Technology Elective		4	1	Equiv
606-131	Strength of Materials	3	ET-291	Strength of Materials		3		Equiv
457-119 **And** 457-120	Fabrication Fundamentals 1 **And** Fabrication Fundamentals 2	1 **And** 1	ETECH-252	Material Removal and Forming Processes		(2)		Sub
606-165 **And**	Intro to SolidWorks **And**	1	ETECH-210 **And**	Communication of Engineering Design 2 **and**		3		Sub

606-164 **And** 606-166 **And** 420-325	Technical Detailing **And** Intermediate SolidWorks **And** Inspection with Geometric Dimensioning	2 1 2	ETECH-420	Engineering Graphics Applications		3		
			Concentration Electives					
606-113 **And** 606-119	Tool and Fixture Design **And** Mechanisms	2 3	ET-393 **And** ET-XXX	Design of Machines and Mechanisms **And** Engineering Technology Elective		3 2		Equiv Sub
#804-118	Intermediate Algebra with Apps	4	**Not applicable to UW-Stout's program requirements.**					
623-176	Quality Assurance	1						
606-145	Applied Mechanics	2						
Major, Emphasis, Unrestricted Electives Total		**45**		**Section B Subtotal**		**35**	**10**	
				Total College Credits Applied (sum of sections A and B)		**54**	**10**	

Special Notes, if any:
This course is considered remedial coursework at UW-Stout. Credits will not count towards degree or graduation requirement totals.
(_) This is normally a 3-credit course. The additional credit will be made up in concentration electives.

SECTION C - Remaining University of Wisconsin Requirements

Stout Core General Education		
ENGL-102	Composition 2	3
MATH-153	Calculus 1	4
PHYS-242	College Physics 2	5
ETECH-100	Impacts of Engineering	3
	Arts and Humanities Stout Core	6
	Stout Core Elective	1
	Remaining Stout Core Subtotal	**22**
Program Core		
ETECH-199	Independent Study: Heat Transfer	1
CHEM-135	College Chemistry 1	5
ET-204	Electricity/Electronics Fundamentals	3
ET-290	Statics and Dynamics	3
ET-341	Electrical and Mechanical Interface Devices	3
ET-405	Senior Design Experience	3
ETECH-230	Industrial Robotics & IoT Fundamentals	3
INMGT-200	Operations Management	3
INMGT-400	Organizational Leadership	3
RC-381	Principles of Occupational Risk Control/Safety	3
STAT-320	Statistical Methods	3
ET-349/449	Cooperative Education Experience	1
	Remaining Program Core Subtotal	**34**
Mechanical Design Concentration		
ETECH-251	Fundamentals of Plastics Materials & Processing	3
ETECH-253	Joining & Casting Processes	3
ETECH-303	Computer Aided Manufacturing	3
ET-422 **or** ETECH-415 **or** ETECH-460	Research & Development **Or** Robotic System Integration **Or** Design for Additive Manufacturing	3
	Remaining Concentration Core Subtotal	**12**
	Total Remaining UW-Stout Credits	**68**

Special Notes, if any:

SECTION D - Summary of Total Program Credits

Mid-State Technical College Credits		University of Wisconsin-Stout Requirements	
General Education	19		
Major, Concentration Emphasis, Electives or Other	45		
Total College Credits	**64**	**Total College Credits Applied**	54
		Remaining credit to be taken at University of Wisconsin-Stout	68
		Total Program Credits	**122**

Special Notes, if any:
Students may also complete 10-804-190 Calculus and Analytic Geometry 1 and 20-801-223 English 2 at Mid-State to reduce the number of credits required at UW-Stout.