Annual Assessment Report

Academic Year: 2022-2023

Manhattan Area Technical College 3136 Dickens Avenue Manhattan, KS 66503

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MATC FACTS

Manhattan Area Technical College (MATC) is a public technical college located in Manhattan, Kansas. The following programs of study are available:

- Adult Education
- Air Conditioning & Refrigeration
 Construction Technology
- Associate Degree Nursing
- Automotive Technology
- Biotechnology (suspended)
- Business Administrative Assistant
- Business Accounting
- Certified Medication Aid

- Certified Nursing Assistant
- Critical Environment Technology
 IV Therapy
- Electric Power & Distribution
- Emergency Medical Sciences
- Emergency Medical Sciences, Advanced
- Information & Network Technology

- Industrial Engineering Technology
- Medical Laboratory Technology
- Phlebotomy
- Practical Nursing
- Welding Technology

By the Numbers: KBOR Academic Year Data Collection (SU22, FA22, SP23)

1.245 Total enrollments

56.1% Male

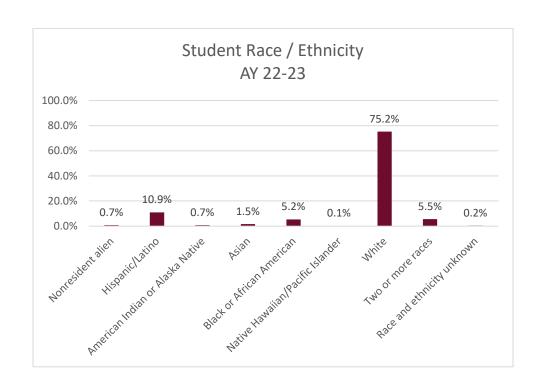
43.9% Female

587 Students from 6 area high schools

14,832 Total credit hours 11.91 Average course load

494 FTEs

17:1 Student-to-faculty ratio



Where are MATC students from?

93% are from the MATC service area

65% of MATC students are from the Manhattan MSA (66502, 66503, 66505)

6% are from other parts of KS

< 1% are from outside of KS

ASSESSMENT OVERVIEW

Philosophy of Assessment

MATC's faculty and staff are committed to a comprehensive institutional assessment program that promotes continuous improvement in all aspects of programs and services critical to the success of the College. Convinced that learning-oriented effectiveness is of primary importance in meeting the institution's mission, the faculty has placed an emphasis on the assessment of student learning.

MATC also recognizes the importance of assessment and improvement activities related to organizational structure. These activities, which are designed to complement the assessment of student learning and enhance the planning and implementation of strategic initiatives, as well as the operational functions of the College, are executed as part of a comprehensive plan.

Demonstrating ongoing institutional improvement is necessary to ensure the continuing success of the College. MATC is strengthened by its ability to respond quickly and effectively to changing student and stakeholder needs through a systematic and well-practiced methodology involving assessment, evaluation, and action to address the identified opportunities for improvement. This allows the College to compete in an educational arena where prospective students have myriad options. In addition, as legislative bodies and accrediting organizations search for ways to enhance accountability among educational institutions, the documentation produced by this ongoing improvement process facilitates the reporting required for compliance with these regulatory and oversight agencies.

General Education Philosophy

General education is an essential element of a student's education. It provides a foundation for lifelong learning and is woven into learning opportunities at MATC.

General education refers to subject matter that is foundational in nature and may be infused into all disciplines of study. Concepts to enhance and support the overall educational experience provided at MATC.

To support the philosophy general education in the learning experience of our student the College has implemented the MATC Core Abilities Assessment Process that measures Written and Oral Communication, Quantitative Literacy, and Critical Thinking and co-curricular experiences to provide leadership development opportunities. Together, these elements following are designed to foster students' ability to:

- Use the English language effectively to read, write, speak, and listen critically
- Use systematic, critical, and creative processes to identify problems and make decisions
- Develop knowledge of self and a capability for self-direction and self-motivation
- Analyze and assess personal values and life goals that affect decision-making and relationships in a global community
- Perform the mathematical computations necessary to succeed as an employee and as a consumer
- Demonstrate proficiency in gathering, analyzing, and synthesizing information
- Increase an understanding of individual and group differences

Upon graduation, students should be proficient in:

- 1. Communicating effectively in written and oral forms;
- 2. Critical thinking and the solving of problems described verbally, graphically, symbolically, or numerically;
- 3. Identifying, accessing, and evaluating information and materials;
- 4. Gaining knowledge of self and demonstrating ability to work with others independently and in teams, and;

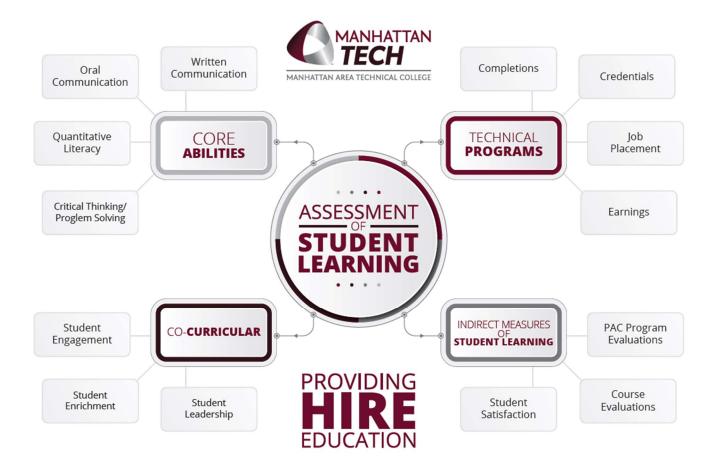
5. Exhibiting tolerance of and respect for diversity in human abilities, cultures, age, and beliefs.

Within the technical programs, faculty members strive to reinforce and enhance student learning by providing opportunities that require students to apply skills acquired in general education components to "world of work" problems in their classrooms.

Assessment Plan

MATC operates under a shared governance guiding principle with four core faculty-driven committees: Faculty Senate, Curriculum, Professional Development, and Assessment. These committees share responsibility with Administration to create, revise, and govern policies and procedures. Assessment Committee policy indicates that the Assessment Committee is a representative group of MATC faculty and staff that advise Administration in matters concerning the planning, implementation, and evaluation of activities related to College-wide assessment.

The MATC Assessment Committee maintains an Assessment Plan, revised biannually, that provides a structure and guidance to MATC's assessment efforts. Manhattan Tech utilizes a four-part assessment model that is represented by the visual below. The remainder of this Annual Assessment Report reviews the results for each of the four parts of the assessment model for the academic year of 2022-2023.



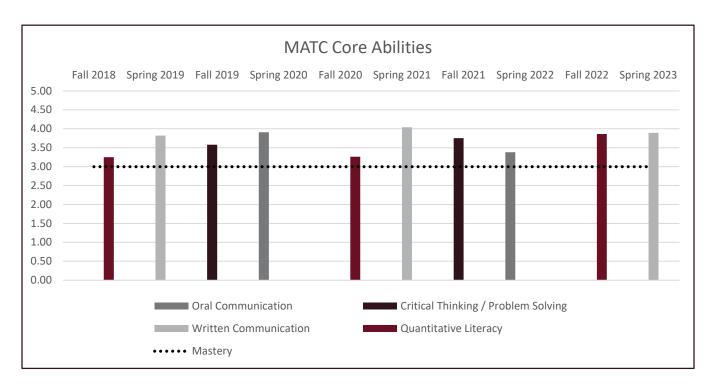
CORE ABILITIES

Overview

All MATC degree programs, regardless of the specialty, prepare students for technologically advanced careers and roles as individuals and citizens in a dynamic and diverse global environment. MATC believes that general education should be integrated and woven throughout the curriculum to provide students with a foundation for lifelong learning. Thus, the College has defined four core abilities as their general education outcomes: quantitative literacy, written communication, critical thinking / problem solving, and oral communication.

These core abilities are the skills and attitudes that are common to all situations and are not unique to a particular occupational field. In essence, they are the skills necessary to ensure success in life and in the workplace. Therefore, the core abilities are integrated within each major's technical courses to ensure that graduates have made progress towards becoming educated citizens in a dynamic and diverse global environment.

While the institution encourages faculty to integrate and administer each core ability assessment every semester, the Assessment Committee formally reviews and analyzes a different core ability each fall and spring on a two-year rotational basis. Faculty are required to utilize institution-wide rubrics, adapted from the American Association of Colleges and Universities (AAC&U) VALUE rubrics, for the specified core ability to assess individual student performance. The assessments are scored on a 5-point scale with 1 identified as developing, 3 as proficient, and 5 as exemplary. MATC's Assessment Committee set mastery at the 3.00, or proficient, level.



For academic year 2022-2023, Assessment Committee reviewed the quantitative literacy core ability in fall 2022 and the written communication core ability in spring 2023.

Fall 2022 – Quantitative Literacy

Quantitative literacy, or reasoning, is competency and comfort in working with numerical data. It involves the integration of quantitative skills in a wide array of authentic contexts and everyday life situations.

	Fall 2022	Fall 2020	
	Average	Average	Difference
Identifies the essential elements of the problem	4.02	3.33	0.69
Understands the problem and discusses any assumptions	3.91	3.23	0.68
Accurately performs arithmetic, algebraic, geometric, etc. calculations	3.90	3.27	0.63
Validates the answer	3.66	3.25	0.41
Represents the results	3.87	3.20	0.67
Grand Total	3.86	3.26	0.60

By the Numbers:

42 Courses

557 Students, unduplicated

Highlights:

- Completed the process of expanding assessment in course(s) taught by concurrent instructors, along with utilizing an integrated process to support concurrent instructors located at area high schools
- This resulted in an increase of 14 courses and 246 students (distinct) assessed from the prior fall
- 100% of concurrent adjuncts completed the assessment

Spring 2023 – Written Communication

Written communication is the development and expression of ideas in writing, which may involve working with many different technologies and formats and utilizing rules appropriate for the discipline and genre.

	Spring 2023	Spring 2021	
	Average	Average	Difference
Purpose / Main Point	4.04	4.17	(0.13)
Organization	3.86	4.22	(0.36)
Sentence Style	3.82	3.86	(0.04)
Correctness	3.66	4.24	(0.58)
Intended Audience	4.09	3.75	0.34
Grand Total	3.89	4.04	(0.15)

By the Numbers:

57 Courses

523 Students, unduplicated

Highlights:

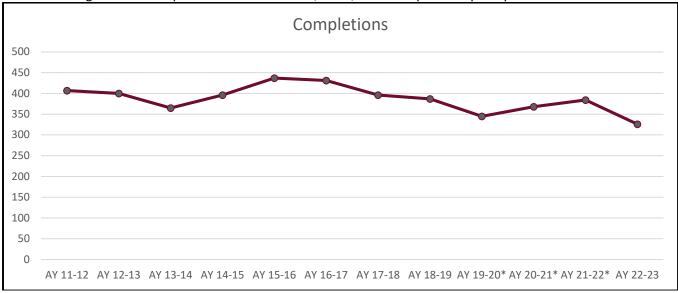
- This was an increase of 29 courses and 212 students (distinct) assessed from the prior spring
- 88% overall completion percentage for the assessment
 - 85% of faculty (non-concurrent) completed the assessment (100% of full-time faculty)
 - o 94% of adjunct faculty completed the assessment

TECHNICAL

MATC assesses technical programs via a blend of Kansas Board of Regents (KBOR) Completion Benchmarks and Kansas Technical Education Authority (TEA) Outcome Metrics. Kansas TEA endeavors to ensure program offerings across the state fulfill the needs of business and industry, maximize the number of credentials attained at the completion of programs, and provide seamless transitions in line with Kansas state law and the Career Pathways Model. MATC's technical assessment also supports KBOR's strategic plan, *Building a Future*.

Completions

Number of degrees and completions awarded: SU22, FA22, SP23 compared to prior years



Source: KBOR Academic Year Collection, Completions, * COVID 19 Pandemic

By the Numbers:

326 degrees / certificates awarded

98 Certificate of Completions (less than 16 credit hours)

44 Certificate As (16-29 credit hours)

48 Certificate Bs (30-44 credit hours)

55 Certificate Cs (45-59 credit hours)

81 Associates of Applied Sciences (60-68 credit hours)

Student Success

Entrance	Completed at	Completed in	Completed	Retained at	Retained in	Retained	Total Success
Year	MATC	KBOR System	Elsewhere	MATC	KBOR System	Elsewhere	Rate
2011	59.6%	5.9%	1.1%	0.4%	2.2%	1.1%	70.3%
2012	47.6%	9.2%	2.4%	1.0%	1.0%	1.5%	62.7%
2013	57.4%	8.8%	1.3%	0.2%	1.7%	2.6%	72.0%
2014	55.7%	6.8%	2.9%	0.0%	2.3%	2.9%	70.6%
2015	60.3%	7.7%	1.3%	0.6%	1.9%	2.1%	73.9%
2016	65.4%	5.2%	1.2%	0.0%	1.5%	1.0%	74.3%
2017	58.8%	9.1%	1.6%	0.3%	1.6%	1.9%	73.3%

Most recent data available for AY22-23; Results are after 6 years from entrance

Source: Kansas Higher Education Statistics; (KBOR Academic Year Collection & National Student Clearinghouse)

Credentials

A credential (technical skills assessment, or TSA) is an industry-recognized credential that is sought or accepted by employers within the associated industry or sector as a recognized, preferred, or required credential for recruitment, screening, hiring, retention, or advancement purpose. Examples includes Microsoft Office Support Specialist, OSHA10, Network +, NCCER CARPENTRY, NATEF, AWS, EMT, KDAD-CNA, and NCLEX.

Academic Year	2017	2018	2019	2020	2021	2022	2023
TSA Attempted	1,428	647	966	997	1,079	1,514	1,211
TSA Passed	1,050	607	928	964	887	1,428	1,042
Percentage of TSA Passed	74%	94%	96%	97%	82%	94%	86%

Source: KHEDS Follow Up Collection, Basic Counts Report, Tables 3a & 4a

By the Numbers:

411 Students, unduplicated

35 Distinct types of credentials

Job Placement

MATC strives to provide HIRE education for students. Job placement shows the percent of MATC graduates employed in Kansas after 1 year.

Completion Year	2015	2016	2017	2018	2019	2020	2021
Short-Term Certificates	69.9%	63.8%	65.9%	63.2%	69.6%	72.9%	64.9%
Certificates	74.3%	66.7%	66.7%	71.1%	74.6%	78.8%	69.0%
Associate Degrees	77.1%	76.2%	78.4%	71.7%	77.9%	85.5%	79.2%
All Awards	74.2%	70.0%	71.4%	68.7%	74.9%	79.2%	71.1%

Source: Kansas Higher Education Statistics Employment and Wages by Award Type and Time from Completion of Award; Percentage of Graduates Employed in Kansas After 1 Year (KHEDS Academic Year Collection & KDOL Wage Records); includes military service, apprenticeships, or employed in the workforce

Earnings

Jobs with sustaining wages allow students to be self-sufficient and provide for their own needs. The chart shows the average wages of MATC graduates employed in Kansas after 1 year.

Completion Year	2015	2016	2017	2018	2019	2020	2021
Short-Term Certificates	\$19,574	\$34,033	\$19,843	\$ 26,392	\$ 26,706	\$ 25,551	\$27,071
Certificates	31,868	34,042	30,878	46,969	36,761	40,302	45,705
Associate Degrees	41,278	39,336	43,197	44,843	44,297	51,550	60,830
All Awards	\$ 32,580	\$ 36,621	\$33,170	\$ 39,534	\$ 38,092	\$ 40,176	\$45,648

Source: Kansas Higher Education Statistics Employment and Wages by Award Type and Time from Completion of Award; Average Wages of Graduates Employed in Kansas After 1 Year (KHEDS Academic Year Collection & KDOL Wage Records)

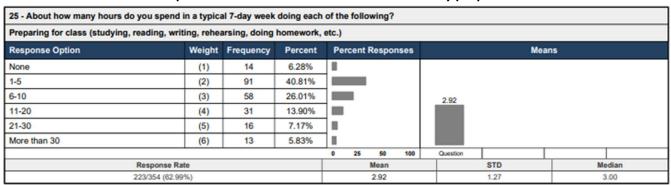
CO-CURRICULAR

Co-curricular refers to activities, programs, and learning experiences that reinforce MATC's mission, values, and complement the formal curriculum. Examples include: student organizations, internships, attending PAC meetings, and service projects. Co-curricular activities support student development outside of the classroom and align with MATC's general education philosophy.

Student Engagement

Student engagement is characterized as participation in educationally effective practices, both inside and outside the classroom, which leads to a range of measurable outcomes. The two critical features of this is 1) the amount of time and effort students put into their studies and other educationally purposeful activities and 2) how the institution deploys its resources and organizes educational activities and support services to induce students to participate in activities that lead to the desired experiences and outcomes.

How much time do students put into their studies and other educationally purposeful activities?



25 - About how many hours of	5 - About how many hours do you spend in a typical 7-day week doing each of the following?										
Participating in college-sponsored activities (student organizations, student activities/events, etc.)											
Response Option Weight Frequency Percent				Pe	Percent Responses Means						
None	(1)	167	74.89%				\neg				
1-5	(2)	36	16.14%		ı						
6-10	(3)	15	6.73%								
11-20	(4)	2	0.90%	ı							
21-30	(5)	2	0.90%	1				1.38			
More than 30	(6)	1	0.45%	ı							
	•			0	25	50	100	Question			
Response Rate					Mean				STD	Median	
	223/354 (62.99%)			1.38					0.79	1.00	

What co-curricular activities does MATC offer to support students?

Car Show
Career / Job Fair
Christmas Parade
Common Table
Department faculty meetings
Departmental PAC meetings

Habitat for Humanity
Industry field trips

National Technical Honor Society

Open House Pancake Feed SkillsUSA

Student Voice Council

Technical or professional organization involvement

Trunk or Treat

Veteran's Day Parade

Student Enrichment

Student enrichment refers to activities where students can receive advanced academic instruction or assistance with assignments and concepts, or discover new hobbies, interests, and activities outside the classroom setting. MATC's Teaching & Learning Center (TLC) offers resources including peer tutors, Brainfuse (online tutoring and writing lab), access to industry databases, student study planning, Grammarly, math reviews, resume workshops, and study spaces.

Brainfuse Usage										
Total Usage (minutes)	7,094	LiveHelp Subjects Requested								
Database Usage (minutes)	6,494	Statistics	47.26%							
Skill Surfer, eParachute, Flashbulb		Pre-Algebra	18.49%							
		College Algebra	15.07%							
LiveHelp, Writing Lab, and Tests Taken	600	College General Chemistry	6.85%							
LiveHelp Sessions see subjects on the right	146	General Math	3.42%							
Average Length of Tutoring Session (minutes)	30	College Writing	3.42%							
Writing Lab (submissions)	453	College Physics	2.74%							
Unique Visits	1,449	Trigonometry	2.05%							

Peer Tutoring								
Subjects	Hours Available							
Mathematics	263.0							
Communication								
Sciences	Resume Workshops							
Social Sciences	February 28, March 2							
Business	March 7, March 9							

Student Leadership

Student leadership is when students are given the opportunity to take significant responsibility for their learning and experiences or are in the position to influence, motivate, and guide others toward achievement of a goal. While students may demonstrate leadership through many forums, MATC students have the opportunity to participate in National Technical Honor Society (NTHS), SkillsUSA, and Student Voice Council (SVC).

SVC is a forum for positive, constructive, and respectful communication around opportunities to enhance the student experience at MATC through student input. SkillsUSA serves students enrolled in career and technical education programs to empower its members to become world-class workers and responsible American citizens. NTHS believes in advocating for all skilled career paths and empowering students in seeking skills to build their careers and the global work force by honoring the achievements of top CTE students.

When asked about leadership, students replied:

13 - Has your experience at MATC contributed to your knowledge, skills, and personal development in the following areas?											
Leadership skills											
Response Option	Weight	Frequency	Percent	Per	rcent	Respo	onses Means				
Yes	(2)	138	81.66%					1.82			
No	(1)	31	18.34%		I						
	,										
				0	25	50	100	Question			
Response Rate				Mean				STD		Median	
1	69/507 (33.33%)			1.82					0.39	2.00	

INDIRECT MEASURES OF STUDENT LEARNING

Student Satisfaction Surveys

The Student Satisfaction Survey is administered each spring semester to assess student engagement and satisfaction in the different administrative areas of Student Services, Academics, and the Campus. For AY 2022-2023, MATC had a 33% response rate.

What do students think of MATC's quality of instruction?

83% indicate that the instruction they received has prepared them for the next step in their chosen career path 86% indicate that faculty are knowledgeable in their fields

When asked if MATC has contributed to their knowledge, skills, and personal development in the areas below, what percentage of students responded positively?

82% writing clearly and effectively

79% speaking clearly and effectively

92% thinking clearly and analytically & problem solving

86% solving numerical problems

89% working effectively in teams

89% advocating for themselves

89% working in a team environment

Are students engaged?

83% indicate that they feel as if they have support from instructors and staff in meeting their educational goals

98% indicate that campus feels safe and secure

77% indicate that they generally know what is happening on campus

87% indicate that they are aware that MATC offers counseling resources

30% indicate that they have participated in a service-learning activity

39% indicate that they have participated in academic support and/or tutoring services at MATC

66% indicate that they have had serious conversations with students who differ from them

What are students' overall perception of their MATC experience?

78% are satisfied with their experience at MATC; 6% report some level of dissatisfaction

PAC Program Evaluations

Each technical program has a Program Advisory Committee (PAC) or Business and Industry Leadership Team (BILT) to advise faculty and administration concerning curriculum, student learning outcomes, facilities, instruction methods, equipment, enrollment, job opportunities, and other issues critical to its quality and success. Each spring, in addition to their biennial meetings, PAC members receive optional PAC program evaluation survey to PAC/BILT members that asks about the program.

What percentage of PAC Members responded positively when asked for their input on the following:

100% indicate that there is adequate market demand to support the employment of program graduates 82% indicate that graduates possess the knowledge, skills, and abilities for an entry-level position in their field

88% indicate that the technical skills taught in programs meet industry standards

71% indicate that program curriculum is relevant in today's industry

71% indicate that programs meet the employment needs of the community and area employers

59% indicate that program facilities are adequate to meet course and program objectives

53% indicate that program equipment is adequate to meet course and program objectives

53% indicate that students are trained with the most up-to-date technology available

Course Evaluations

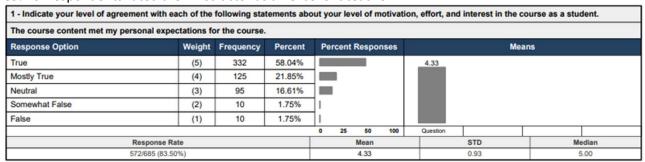
Course evaluations are administered each fall and spring semester to assess student perceptions of course/program attributes and instructor attributes.

Fall 2022

84% response rate

80% of respondents indicated that course content met their expectations

89% of respondents rated their instructor as an excellent teacher



2 - Indicate your level of agreement with e	2 - Indicate your level of agreement with each of the following statements about the attributes of the instructor.											
Overall, I rate this instructor an excellent teacher.												
Response Option Weight Frequency Percent			Percent	Percent Responses			ses		Means			
True	(5)	530	75.28%					4.61				
Mostly True	(4)	95	13.49%									
Neutral	(3)	64	9.09%									
Somewhat False	(2)	7	0.99%] [
False	(1)	8	1.14%	ı								
				0	25	50	100	Question				
Response Rate					Mean				STD	Median		
572/685 (83.5	0%)			4.61					0.79	5.00		

Spring 2023

75% response rate

81% of respondents indicated that course content met their expectations

83% of respondents rated their instructor as an excellent teacher

1 - Indicate your level of agreement with each of the following statements about your level of motivation, effort, and interest in the course as a student. The course content met my personal expectations for the course.												
True	(5)	241	60.25%		4.33							
Mostly True	(4)	81	20.25%		_							
Neutral	(3)	60	15.00%		_							
Somewhat False	(2)	5	1.25%]ı	_							
False	(1)	13	3.25%	1								
				0 25 50 100	Question							
Response Rate				Mean	STD	Median						
400/531 (75.33%)				4.33	0.99	5.00						

400/331 (73.33%)					4.33				0.99	5.00			
- Indicate your level of agreement with each of the following statements about the attributes of the instructor.													
Overall, I rate this instructor an exc	ellent teacher.												
Response Option	Weight	Frequency	Percent	Percent Responses			nses	Means					
True	(5)	427	71.76%					4.46					
Mostly True	(4)	67	11.26%										
Neutral	(3)	66	11.09%										
Somewhat False	(2)	15	2.52%	ı									
False	(1)	20	3.36%	1									
	•			0	25	50	100	Question					
Response Rate				Mean				STD		Median			
400/531 (75.33%)				4.46				1.01		5.00			

ABOUT MATC

Mission

Manhattan Area Technical College provides high quality technical, general, and adult education to prepare individuals to pursue technologically advanced careers and lead productive lives a dynamic and diverse global environment.

Vision

As a leader in technical education, Manhattan Area Technical College will enhance student-centered learning and service to business, industry, and community members.

Values

Providing HIRE Education – Helping Ignite & Revolutionize Education

The values of the college community drives the vision and mission of Manhattan Tech.

HELPING IGNITE the ambition and passion:

- In our students through self-advocacy
- In our faculty and staff by providing student centered support
- Of our community by supporting regional workforce needs.

REVOLUTIONALIZE EDUCATION through:

- Active learning with hands-on instruction from day one
- Faculty delivering cutting-edge industry driven expertise
- Inspiring innovative lifelong learning.

ASSESSMENT COMMITTEE MEMBERS

The assessment committee at MATC is comprised of both faculty and staff members.

- Jason York (Chair) Faculty, Business Administration
- Cindy Sias (Vice Chair) Faculty, Practical Nursing
- Dorothy Ascher Faculty, Associate Degree of Nursing
- Casey Field Student Success Coordinator
- Pamela Imperato Instructional Technology Coordinator
- Thomas Mudd Faculty, Welding Technology
- Jaren Nittler Faculty, Automotive Technology
- Rachel Ohmes Faculty, General Education Communications
- Darren Ortega Director of Academic Resources
- Jeff Pishny Faculty, Automotive Technology
- Allen Sangwin Faculty, Air Conditioning & Refrigeration
- Chelsea Weese Faculty, Chemistry
- Kim Withroder Director of Institutional Reporting & Instructional Technology
- Chris Boxberger (Ex-officio) Dean of Academic Partnerships & Outreach
- Kim Davis (Ex-officio) Dean of Nursing & Health Programs
- Sarah Phillips (Ex-officio) Vice President of Student Success, Chief Academic Officer, Chief Student Services Officer
- Nathan Roberts (Ex-officio) Dean of Academic Affairs