

Assessment Report

PART 1: CONTACT & PROGRAM IDENTIFICATION

Report Year and Contact Information:		
2019-2020	Marcel Hesch	mhesch1@cnm.edu
Academic Year	Contact Person	Email

Name of Program:	Courses:
Machine Tool Technology Degree	MATT 1001 MATT 1030 MATT 1120 MATT 1130

PART 2: PROGRAM SUMMARY

Provide a high-level review of the program to include highlights, successes, challenges, significant changes, and significant resources needed to support the program.
<p>In the middle of Spring 2020 face-to-face Basic MATT courses were discontinued at CNM therefore the theory portion of my lab courses were taught online from this point forward and my theory courses were continued entirely online. The students had no difficulties in continuing their education online, performed better than I would have expected, and made the transition very well.</p> <p>The same students from Spring continued in Summer to Intermediate MATT courses and once again exceeded my learning expectations.</p>

Part 3: DATA REVIEW

Program Data (Each Review Year is defined as Summer, Fall, and Spring terms)	Review Year 19-20	Review Year 18-19	Review Year 17-18
Annual number of graduate awards is greater than 10	8	14	9
Number of declared majors	54	64	66
Average class size	19	13	17
Annual Average class retention rate is 70% or above (SAGE 65%)	83%	95%	93%
Annual C-Pass rate for coursework is 60% or above	81%	90%	85%
Average class fill rate at 60% or above capacity within a term or over a year	93%	64%	85%
Transfer numbers/percent	NA	2 (14%)	1 (11%)
Full-time to part-time faculty ratio	8: 1	8: 0	7: 2

Summarize how your program met or did not meet the target measures based on the data above.

In the '19 – '20 year the MATT certificate was received by eight students compared to the annual goal of ten. In this same year the number of MATT declared majors was 54 compared to that in the previous year of 64, and in the '17 – '18 of 66. Average class size was 19 compared to 13 and 17. Average retention rate was 83 versus 95 and 93. C-pass rate was 81 with the previous two being 90 and 95 and the fill rate was 93 whereas the previous was 64 and its previous was 85.

Part 4: PROGRAM LEARNING OUTCOME ANALYSIS.

Learning Outcome	Population or Course(s) Assessed	Assessment Methods	Summary of Assessment Results
Demonstrate proficiency in shop math.	MATT 1001, MATT 1030, MATT 1140	Final Exam, Test or quiz, and Homework assignments.	Whether taught face-to-face or online my students achieve good results in math proficiency. This being the case instructional techniques are affective.
Implement advanced CNC techniques.	MATT 2005, MATT 2140		
Perform basic operations on a variety of machine tools and support equipment.	MATT 1120, MATT 1130	Final Exam, Test or quiz, Instructor observation, and Homework assignments.	Student results are good in learning basic operations of the engine lathe and the vertical milling machine. Thus, verifying good instructional methods.
Safely perform manual machine tool processes.	MATT 1120, MATT 1130	Final Exam, Test or quiz, Instructor observation, Homework assignments, and Other.	Other is repeatedly reminding students to work safely, this I do about weekly.

Interpretation of Assessment findings
I think I can improve results by including practical exams in the future.

Part 6: ADDITIONAL ACTION PLAN IN SUPPORT OF STUDENT LEARNING (IF APPROPRIATE)

Upcoming year	Changes planned for the upcoming year	Data motivating this change
2020-2021	Include practical exams wherever applicable.	It is not data that motivates me as it is the power of suggestion. Each time I see the box that can be checked of "practical exam" which I think will be an excellent tool for enduring learning in my lab sources.
2020-2021		
2020-2021		

Please Select all the following that characterize the types of changes described in the above action plan:

- Assessment criteria revision
- Assessment methodology revision
- Assignment revision
- Budgetary reallocation
- Change in teaching approach
- Course content revision
- Curricular Revision
- Faculty training/development
- Process revision

Part 6: COMMENTS

Use this section to record any comments, notes, or questions from individuals who reviewed this report.
School Dean:
SAAC Representative: