

macOS Instructor Guide for MEASURE

Faculty of Engineering, McMaster University

January 12, 2024

BY

Evan Situ, Michelle Zheng, Spencer Smith, Andrew Aran, Heather Snow



Version 3.02

Modification Log

Version	Modification Date	Author	Comments
3.02	January 12, 2024	Heather Snow	 Updated screenshots and steps to
			include updated Vena GUI
			 Updated website links to new
			version
3.01	July 30, 2021	Andrew Aran	Updated text to rubric entry process
			 Updated instructions for accessing
			Annual & YoY Attribute reports
3.00	January 9, 2020	Andrew Aran	• Updated to reflect MEASURE 3.0

Click here to view previous modification log.



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Introduction

The Instructor's Guide describes part of MEASURE (McMaster Engineering Accreditation System for UndeRgraduatE).

MEASURE's purpose is to:

- Facilitate the continual improvement of the curriculum of the programs offered by the Faculty of Engineering
- Assist with generating accreditation reports for the Canadian Engineering Accreditation Board (CEAB)

MEASURE is built using corporate performance management software, (Vena) that combines Excel spreadsheets, a central database, and workflow management.

This document outlines the MEASURE tasks that take place at the instructor level.

Specifically, each instructor will update the Rubric Input Template for each section of every course taught.

Additional information on MEASURE can be found in the Administrator's Guide and in the Department Contributor's Guide. The latest version of all these documents, along with other resources, are available at http://measure.mcmaster.ca

Issue Reporting: https://www.eng.mcmaster.ca/forms/measure-issue-tracking

Technical Support: measure@mcmaster.ca



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Prerequisites

macOS

System Requirements

	Recommended		Minimum
Operating	Mac OS X version 10.10 or later		
System			
MS Office	Office 2016 for Mac or newer		
	 Click <u>here</u> for instructions to download Office (via UTS) 		
Browser	Latest version of:	•	Internet
	Internet Explorer		Explorer 10+
	Microsoft Edge	•	Microsoft Edge
	Mozilla Firefox	•	Mozilla Firefox
	Google Chrome		12.0+
	-	•	Google Chrome
RAM	4 GB		
CPU	A Mac computer with an Intel processor		
Reference:	https://products.office.com/en-us/office-system-requirements		

About the Vena Contributor Connector

The Contributor Connector is a special version of the Vena Add-In that is designed for Office for Mac and Office Online.

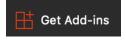
Similar to the Windows Add-In, the Contributor Connector enables users to perform various Vena functions in Excel, such as saving data inputs to the Vena database, choosing among data sets, drilling on intersection data, and working with Line Item Details.

Installing Vena for Mac Users

- 1. Open Microsoft Excel for Mac
- 2. Select the **Insert** tab



3. Select Get Add-ins



4. Search for "Vena Connecter"

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5. Press Add



6. After successfully adding the Vena Connector, the Vena add-in icon will be displayed under the Insert tab.

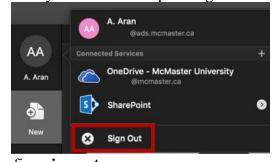


If Microsoft Office is preventing the installation of the add-in (i.e. Office has been configured to not allow individual add-ins), it is because the user is signed in as a domain user (ads.mcmaster.ca).

Signing in as a domain user will prevent users from adding certain Excel Add-ins because UTS controls what add-ins are allowed. Users will need to sign out to install the Vena add-in.

Steps to signing out:

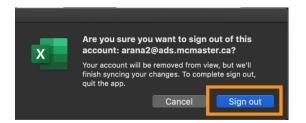
- 1. Open **Excel for Mac**
- 2. Click on your initials then press sign out



3. Confirm **sign out**



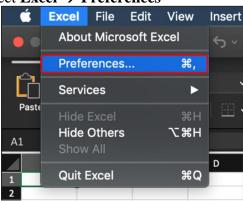
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Enabling Trust Access to the VBA Project Object Model

After successfully installing the Contributor Connector, access to the VBA project object model will need to be trusted for Vena to run properly.

- 1. Open Excel
- 2. Select a Blank Workbook
- 3. Select Excel → Preferences



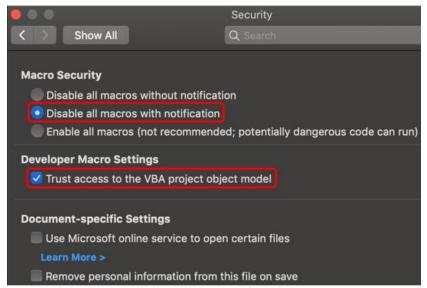
4. Under Sharing and Privacy, select **Security**



- 5. Ensure that **Disable all macros with notification** is selected
- 6. Check the box next to **Trust access to the VBA project object model**



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7. Close all instances of Excel for the settings to take effect.

Other Operating Systems

Vena is currently compatible for Windows and macOS users with Microsoft Office. Users who do not have a compatible operating system and/or Microsoft Office will need to access Vena using a virtual machine.

Instructions to Access a Virtual Machine:

https://www.eng.mcmaster.ca/sites/default/files/vminstruct.pdf

Questions/Comments/Technical Support:

measure@mcmaster.ca



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Annual Timeline

The table below summarizes the typical tasks performed during the course of an academic year. Instructor responsibilities are highlighted in **green**.

Date		Task Description	Section	Template	Task Owner
January	•	Instructor enters rubric and continuous improvement plan for Term 1	Windows macOS	Rubric Input Template	Instructor
January	•	Instructor reviews the continuous improvement plan from the previous year for Term 1	Click here	Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)	Instructor
January	•	Review current rubric entry status Contact users who have yet to complete their Vena rubric entry	Department Guide	See Department Guide	Department
April	•	Update global variable and point to Term 2 (after Term 1 data entry is complete)	Admin Guide	See Administrator's Guide	Associate Dean's Office
May	•	Instructor enters rubric and continuous improvement plan for Term 2	Windows macOS	Rubric Input Template	Instructor
May	•	Instructor reviews continuous improvement plan from the previous year for Term 2	<u>Click here</u>	Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)	Instructor
May	•	Review current rubric entry status Contact instructors who have yet to complete their Vena rubric entry	Department Guide	See Department Guide	Department
May	•	Curriculum committees review (this year) course reports and continuous improvement plan reports	Department Guide	See Department Guide	Department
August	•	Archive previous year Start New Academic Year Update global variable and point to Term 1 (after Term 2 data entry is complete)	Admin Guide	See Administrator's Guide	Associate Dean's Office
August	•	Update Measurement Mapping	Department Guide	See Department Guide	Department
August	•	Update Curriculum Mapping o Consult with Instructors	Department Guide	See Department Guide	Department
August	•	Update Curriculum Recommendations	Department Guide	See Department Guide	Department
August	•	Review Programs in Vena Notify Associate Dean's Office if changes are needed	Department Guide	See Department Guide	Department
August	•	Add/Update/Un-map courses in the Vena Database Do not delete Courses	Department Guide	See Department Guide	Department



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September	•	Faculty reviews departmental continuous improvement plan report from previous year Prepare/review Graduate Attribute Report	Admin Guide	See Administrator's Guide	Associate Dean's Office
December	•	Execute Backup and Restore Process	Admin Guide	See Administrator's Guide	Associate Dean's Office



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Accessing Vena

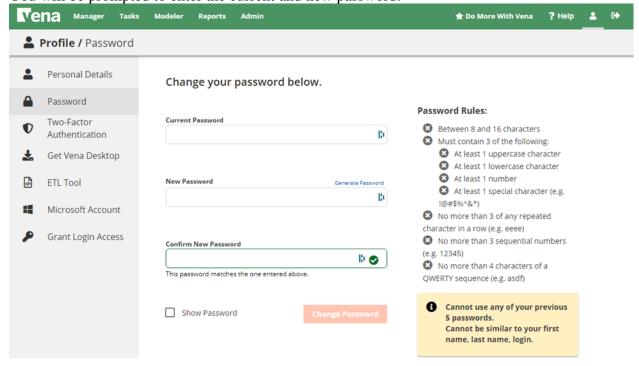
- 1. Open a web browser
- 2. Visit https://vena.io
- 3. In the email textbox, enter your McMaster email address (i.e. macid@mcmaster.ca)
- 4. Your password has been previously communicated. If you do not remember, or do not have an account, please contact Measure Support (measure@mcmcaster.ca)



Changing Vena Password

Your password can be changed by clicking the user's name in the upper right corner of the screen and then selecting "Change Password".

You will be prompted to enter the current and new password.



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Instructor Input

For each course being measured, the continuous improvement plan and rubric data will need to be entered and saved. They will need to be entered in a single spreadsheet called the Rubric Input Template.

When the data entry for the Rubric Input Template is complete, you are done. Although the Vena interface shows a Submit button, the button is disabled.

You do not need to worry about using the Submit button

Vena Checklist

Prior to entering/reviewing rubric data with Vena, please ensure the following tasks are complete:

Task	Windows	macOS	
The device meets the system requirements	Click	<u>here</u>	
Microsoft Excel 2010 or later is installed	Click here		
Vena Add-In is installed	Click here	Click here	
Enabling Trust Access to Vena	Click here	Click here	

macOS Guide

This section of the guide is intended for macOS users.

Accessing Rubric Input Template

- Under Contributor view, select on Task Rubric Input & Course Report (by Instructor)
 New
- Vena Manager Tasks Modeler Admin Reports All (21) Welcome to Tasks - The New Contribute Inputs (21) Curious to discover what's new and how you can best mar Reviews (0) To Do Upcoming View Only **Process Filter:** 1 Reports (0) **Due Date** 11 Task Name Rubric Input & Course Report (by Instructor)

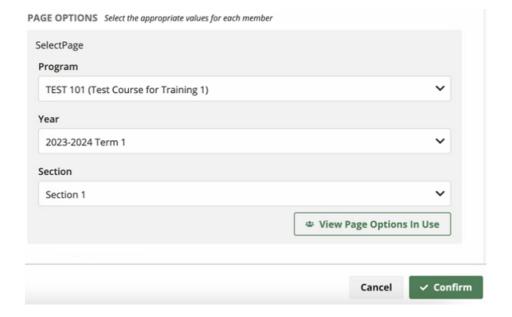


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2. Select Check Out beside the Rubric Input Template – macOS.xlsm



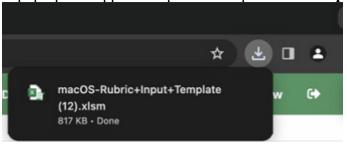
- 4. A new section will display to select the Course, Year, and Section
 - a. **Program:** Select the course for data entry. Pressing the dropdown will let users see the list of available courses. However, typing the course name in the textbox will help find it quicker.
 - b. **Year:** Press the dropdown button to select the corresponding year and term.
 - c. **Section:** The default section is Section 1 (unless otherwise stated).



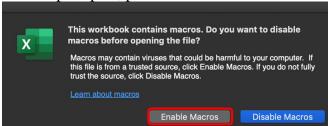
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5. A pop-up will appear to open the template. Click **Open.**



- 6. **Open** the Excel File
 - d. If prompted, press Enable Macros



7. Click **Allow and Continue** on the right-hand side to allow the Vena Connector Add-in to access contents.



Updating Rubric Input Template

If an instructor has rubric information from the previous year, the same rubric information will be prepopulated as a starting point for the current year.

If this is the first time a course is being measured, the user may need to insert new learning outcomes (rows) to enter the rubric data.

Tip: Users can enter/update data where cells are highlighted in yellow.

1. Instructor Name

a. Enter the instructor's name for the course

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2. Rubric Entry Status

- a. Select a status from the dropdown menu
 - i. Not Started User has not entered rubric data
 - ii. WIP User has entered rubric data, but not complete
 - iii. Fully Complete User has completed entering rubric data

Course:	TEST 101 (Test Course for Training 1)		
Term:	2018-2019 Term 1		
Section:	Section 1		
Instructor Name:	John Smith		
Rubric Entry Status:	Fully Complete		
Last User	Admin User		

3. Updated By:

a. Enter your name

4. Summary of Actions to be Taken for Continuous Improvement for Next Academic Year

a. Instructors can enter their continuous improvement plan(s) under the section "Summary of Actions to be Taken for Continuous Improvement for Next Academic Year"

Summary of Actions to be Taken for Continuous Improvement for Next Academic Year						
or rubrics Suggestions to improve the assesment process:						

- b. To attach a file:
 - i. Select a cell
 - ii. Under Vena Comments, click Add New
 - iii. Below the comments, click Attach
 - iv. Select your file and click **Open**
 - v. The new file will be displayed as an attachment in the comments section
 - vi. Press the back arrow button
 - vii. Click **Save** to save the changes
 - viii. When re-opening the template, the cell containing the attachment will now be highlighted in blue for visibility

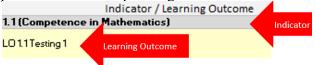
5. Indicators/Learning Outcomes

Indicators - descriptors of what students must achieve to be considered competent in the corresponding attribute



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Learning Outcomes – descriptors of what the instructor expects the student to learn to be considered competent in the corresponding indicator



*** Every indicator must have at least (1) learning outcome (row) inserted ***

a. Adding Topics (rows)

- i. Select an **Indicator** (grey cell)
- ii. Click the + button under the Line Item Details section
 - 1. A new row will be inserted below the selected indicator
- iii. Enter the Learning Outcome in the newly inserted row

b. **Deleting Topics (rows)**

- i. Select the **Learning Outcome** you wish to remove
- ii. Click button under the Line Item Details section
 - 1. The selected Learning Outcome row will be removed

c. Missing Indicators

 If an indicator is missing or is not required, please contact your department representative or <u>MEASURE Support</u> to update the Measure Indicators Template

6. Measurement Date

a. Enter the current date in YYYY-MM-DD format (e.g. 2019-12-31, etc.)

7. Expectations

Description: Describes a given expectation that applies to a learning outcome

Number: The numbers in this column should be the number of students that apply to the given category, not the percentage of the class in that category

a. **Enter** a description and number for each expectation

8. Used (1/0)

The "Used (1/0)" column is updated to determine if the row will be part of the calculation for the Summary and Detailed View charts.

If users wish to record the rubric data and include it as part of the calculation for the Summary and Detailed View charts, set the value to 1.

If users wish to record the rubric data, but not include it as part of the calculation for the Summary and Detailed View charts, set the value to 0.





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If unsure, always set the value to 1.

9. Measurement Category

The Measurement Category has a dropdown menu with a list of possible values pertaining to the learning outcome (i.e. Assignment, Lab, Exam, etc.)

a. **Select** a category from the dropdown box for each row.

10. Attaching Sample Files

Reminder: For privacy and security reasons, remove any information that may identify a student

To attach a file:

- i. Select a cell
- ii. Under Vena Comments, click Add New
- iii. Below the comments, click Attach
- iv. Select your file and click **Open**
- v. The new file will be displayed as an attachment in the comments section
- vi. Press the back arrow button
- vii. Click **Save** to save the changes
- viii. When re-opening the template, the cell containing the attachment will now be highlighted in blue for visibility

11. Reviewing the Number Values

After entering the student count for each expectation, ensure the sum of the line item's equal the Indicator's total

Indicator / Learning Outcome	Measurement Date format: Today= 2021-08-17	Description	Below Expec	tations
1.1 (Competence in Mathematics)				
5.1 (Evaluates and selects appropriate modern tools)			50	
T1 S1 L1 - Use of Azure	2021-05-06	BE T1 S1 L1 - Use of Azure	20	
1 S1 L2 - Use of Cisco Packet Tracer	2021-05-06	BET1 S1 L2 - Use of Cisco Packet Tracer	30	
5.2 (Demonstrates an ability to use modern/state of the art tools)			13	
T1 S1 L1 - Troubleshoot Hardware	2021-05-06	BE T1 S1 L1 - Troubleshoot Hardware	12	
T1 S1 L2 - Troubleshoot Software	2021-05-06	BE T1 S1 L2 - Troubleshoot Software	1	

12. Saving Data

- a. Click the Save button
- b. If successful, successi will temporarily appear over the save button

13. Closing and Checking in the Template

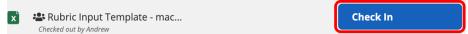




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After saving the changes and closing the Excel template, you will need to go back to the web browser and check the file back in.

- a. Open your web browser
- b. Visit Vena (https://vena.io)
- c. Under Contributor view, click on **Task Rubric Input & Course Report (by Instructor) New**
- d. Press the **Check-In** button next to the template currently checked out

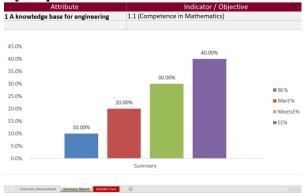


Viewing Summary Chart

The Summary Chart is a graphical summary of every Indicator containing rubric data. The chart may contain up to four bars where each bar represents an Expectation.

After entering/updating rubric data:

- 1. Click the Save button
- 2. On the template, RefreshCharts button
- 3. Select the **Summary Report** worksheet.



Tip: If the charts do not reflect the data, click Vena's Save button, close and check-in the template, then check-out and download the template.

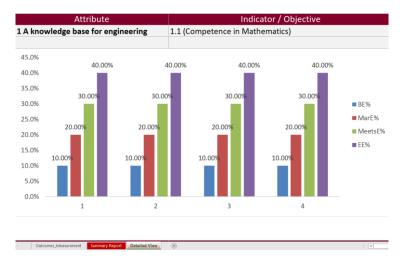
Viewing Detailed Chart

The Detailed Chart is a graphical summary of every Learning Outcome containing rubric course data. Every learning outcome may contain up to four bars where each bar represents an Expectation.

- 1. Click the Save button
- 2. On the template, press the RefreshCharts button
- 3. Select the **Detailed View** worksheet.

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Tip: If the charts do not reflect the data, click Vena's Save button, close and check-in the template, then check-out and download the template.

Reports

Throughout the year, instructors can look at the reports generated by MEASURE. These reports can help fill out the CEAB questionnaire during the accreditation years.

Most of the report types are described in the Departmental Guide. However, the reports that are of particular interest to instructors are described here.

The Vena Reports are best viewed using a Windows-based operating system.

In particular, instructors will want to view:

- CEAB Attribute Report
- Faculty and Curriculum Committee Recommendation's Report
- Historical Course Measurement Report
- Historical Program Measurement Report
- Measurement Map Report



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Accessing the Reports

1. Ensure the Contributor tab is selected



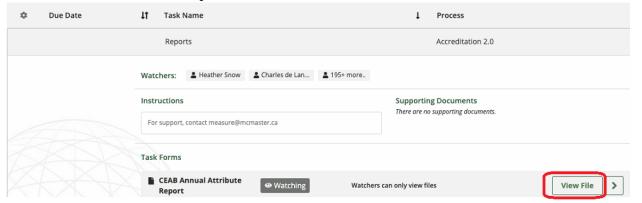
2. On the left side, click **Reports** (the centre section will reload to only display Reports)



3. Click Reports



4. Click View File to view the report.

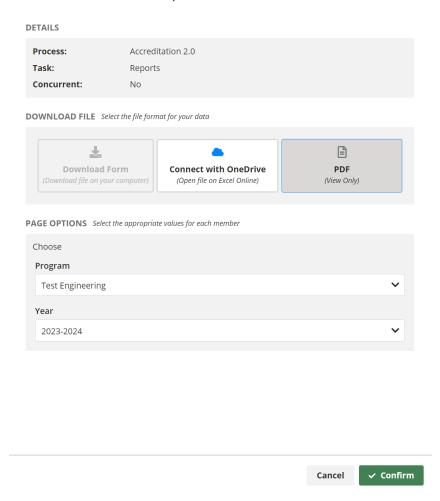




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5. Click either **Download Form** or **PDF**, select the appropriate program and year, and then click **Confirm**.

CEAB Annual Attribute Report.xlsm





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CEAB Annual Attribute Report

This multi-page report provides a detailed snapshot of how the program is progressing for the current year. It includes an overall program summary and a separate report for each Graduate Attribute at the course level.

The report is built off a calculated average with a set order of operations, rather than directly based on the average of total students per outcome. At each level, the total is aggregated. For example, at the Section level, all sections are aggregated together, and from there, all terms are aggregated together to get a Yearly Average for all Sections per Course.

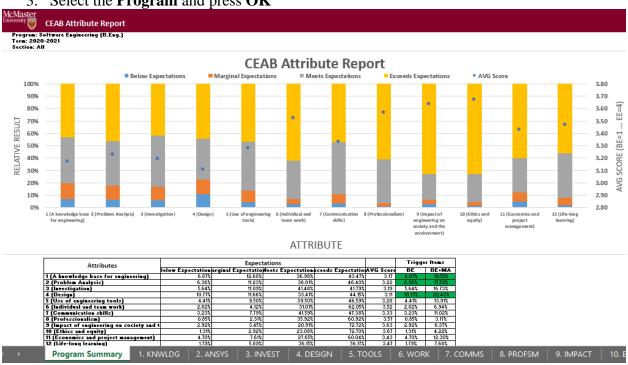
The order of operations for the calculation is:

- 1. LID's (Learning Outcome)
- 2. Indicator
- 3. Attribute
- 4. Section
- 5. Year
- 6. Program

Viewing the Annual Attribute Report

- 1. Select View File next to CEAB Annual Attribute Report.xlsm
- 2. **Save** and **open** the Excel file
 - a. If prompted, Enable Content and Enable Macros

3. Select the **Program** and press **OK**



CEAB 6.WORK Attribute Report



Course	Expectations				
Course	Below Expectations	Marginal Expectations	Meets Expectations	Exceeds Expectations	AVG Score
FWR ENG 4G06 A/B (Software Design IV - Capstone Design Project)	0.58%	3.21%	10.98%	85.23%	3.81
FWR ENG 2DA4 (Digital Systems and Interfacing)	7.14%	3.57%	17.86%	71.43%	3.54
FWR ENG 3XA3 (Software Engineering Practice and Experience: Software F	4.20%	1.40%	11.20%	83.21%	3.73
WR ENG 3A04 (Software Design III - Large System Design)	0.00%	3.76%	81.95%	14.29%	3.11
FWR ENG 2XB3 (Software Engineering Practice and Experience: Binding Th	2.17%	8.66%	33.07%	56.10%	3.43

CEAB YoY (Year over Year) Attribute Report

This report provides a look into the Average Score per Attribute, at a Program level, comparing it year over year. The Choose option that pops up allows you to choose the ending year that you'd like to view.

Prior to 2020-2021, the previous average scores were calculated based on the archived data of the # of students in each attribute/outcome. Starting in 2020-2021, the calculation is calculated on the new average process, as detailed in the CEAB Attribute Report section above.

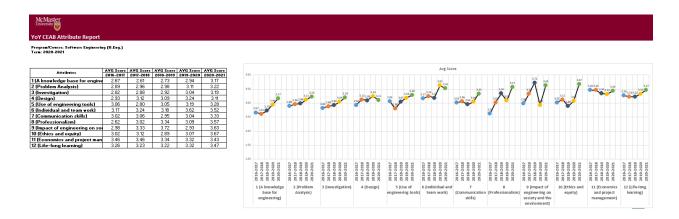
The data for the current year, or most recent year is not automatically calculated. This YoY report uses archived data as it's source. As a result, the archiving process must be executed to see the current year data. Note that this means the entire process must be completed, and the data from step 7a of the Vena Template Automation Average ETL must be executed. This is imperative to the process.

Please refer to the One Time Fix – ETL section of the CEAB Attribute Report.

Viewing the YoY Attribute Report

- 1. Select View File next to CEAB YoY Attribute Report.xlsm
- 2. **Save** and **open** the Excel file
 - a. If prompted, Enable Content and Enable Macros
- 3. Select the **Program**, latest **Year**, and press **OK**

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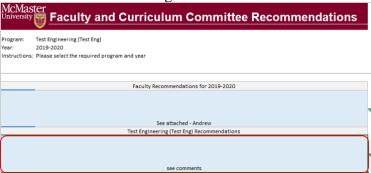
Faculty and Curriculum Committee Recommendation Report

Displays the recommendations from the curriculum committee at both course and program level. This report can be viewed for any year where data is available. The data comes from the feedback provided in the Curriculum Committee Recommendations Input Template and as described in the Departmental Guide.

- 1. Press View File next to Faculty and Curriculum Committee Recommendations Report
- 2. Select a Course/Program and Year
- 3. **Download** and remember the saved location of the report

To view an attached file:

a. Select a cell containing an attachment



- b. Click on Comments under Vena Tab
- c. On the right-hand side, select the attached file



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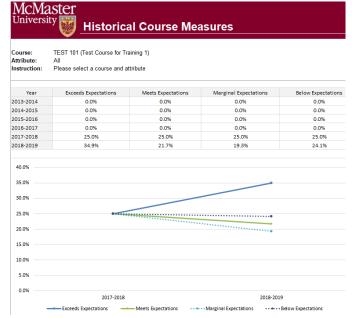


- 4. For macOS users, click View All under Vena Comments
- 5. On the right-hand side, select the attached file

Historical Course Measurement Report

Shows the historical trend for each course at different levels (indicator, attribute and all).

- 1. Press View File next to Historical Course Measurement Report
- 2. **Download** and remember the saved location of the report
- 3. Select a Course (and Graduate Attribute if necessary)
- 4. If prompted, **Enable Content** and **Enable Macros**

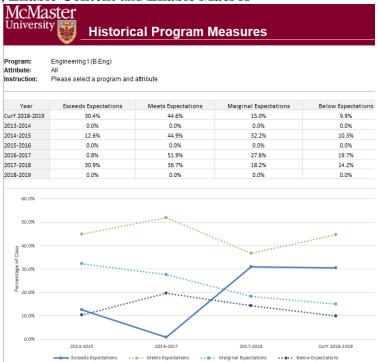


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Historical Program Measurement Report

Shows the historical trend for each program at different levels (indicator, attribute and all).

- 1. Press View File next to Historical Program Measurement Report
- 2. **Download** and remember the saved location of the report
- 3. Select a Program (and Graduate Attribute if necessary)
- 4. If prompted, Enable Content and Enable Macros



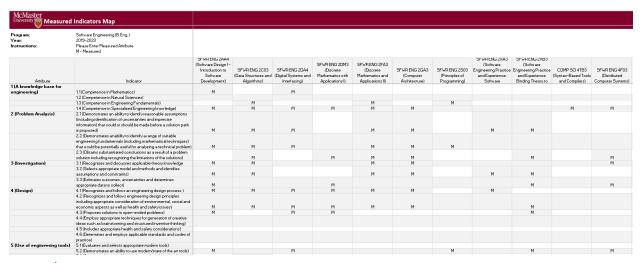
Measurement Map Report

Indicates attributes the instructors will need to measure for a given year.

- 1. Press View File next to Measurement Map Report
- 2. **Download** and remember the saved location of the report
- 3. Select a Program and Year
- 4. If prompted, Enable Content and Enable Macros



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Cascade

*** Vena Feature currently available to Windows Users only ***

The cascade feature enables users to generate the same Vena report for multiple courses or programs. This feature eliminates the need to manually generate the same report for multiple courses.

Generating a Mass Course Report

The steps below will show how to create

- 1. Select Contributor → Reports → Course Reports → View
- 2. Download and open the Course Report
 - a. Click **Enable Editing** and **Edit Content** if the pop-up appears
- 3. Select a Course (belonging to the program), Year, Term, Section
- 4. Select the Vena Tab then click Cascade



5. For dimension, select **Program**



Select a dimension to cascade:

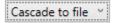
Program

6. Select the courses belonging to the program (hold shift + click)





7. Change option from Cascade to Sheet to Cascade to File



- 8. Choose a location to save the files
- 9. Click OK
- 10. The Cascade feature will take approximately 5-10 minutes to complete
 - Course Report. Program TEST 101 (Test Course for Training 1) Course Report. Program TEST 102 (Test Course for Training 2) Course Report. Program TEST 103 (Test Course for Training 3) Course Report. Program TEST 104 (Test Course for Training 4) Course Report. Program TEST 105 (Test Course for Training 5) Course Report. Program TEST 106 (Test Course for Training 6) Course Report. Program TEST 106 (Test Course for Training 7) Course Report. Program TEST 107 (Test Course for Training 8) Course Report. Program TEST 108 (Test Course for Training 9) Course Report. Program TEST 109 (Test Course for Training 9) Course Report. Program TEST 110 (Test Course for Training 10) -

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Appendix I: Report Overview

Report Overview				
Report	Description			
Attribute Map Report	Displays all the courses for a program and the highest measure level for each Graduate Attribute			
Attribute Map Summary Report	Similar to the Attribute Map Report, instead of displaying the level (A, D, I), the summary report displays an "X" to indicate that the course is measured for a specific attribute			
CEAB Annual Attribute Report	This report includes an overall program summary and a separate report for each Graduate Attribute at the course level			
CEAB YoY (Year over Year) Attribute Report	This report provides a look into the Average Score per Attribute, at a Program level, comparing it year over year			
Course Report	Displays the rubric data entered from the Rubric Input Template in a bar chart. Also contains (if any) continuous improvement plans			
Curriculum Committee Recommendations Report	Displays the committee recommendations for the program and its courses			
Historical Course Measurement Report	Displays the course's year to year trend of the measured expectations			
Historical Program Measurement Report	Displays the program's year to year trend of the measured expectations			
Indicator Map Report	Displays all the Graduate Attribute Indicators and the lowest measure level for each course			
Measurement Map Report	Assigns an "M" for each course measured for the year			
Rubric Entry Report	Displays the rubric entry status, indicates if a course is measured, the instructor's name, the last user to save rubric data, and when it was last saved			

Version 3.02

Appendix II: Previous Modification Log

Version	Modification date	Author	Comments
1.0	July 5, 2016	Evan Situ	
1.1	August 28, 2016	Evan Situ	Split the instructor document added section 3.1 and 1.4
1.2	November 21, 2016	Evan Situ	Removed Other Resource
1.3	December 20, 2016	Michelle Zheng	Updated sections 2-6
1.4	January 2, 2017	Spencer Smith	Updated timeline, instructor input, reports, submit button
1.5	January 9, 2017	Spencer Smith	Addition of password change instructions
1.6	January 19, 2017	Spencer Smith	Removal of request to use the Submit button
1.7	January 31, 2017	Spencer Smith	Explicit statement that each indicator has to have at least one learning outcome
1.8	April 19, 2017	Spencer Smith	Explanation of columns in the Rubric Input template