

# macOS Instructor Guide for MEASURE

Faculty of Engineering, McMaster University

January 9, 2020

BY

Evan Situ, Michelle Zheng, Spencer Smith, and Andrew Aran



## **McMaster Vena – Instructor Contributor Guide (macOS)**

Version 3.00

## **Modification Log**

Version	<b>Modification Date</b>	Author	Comments
3.00	January 9, 2020	Andrew Aran	• Updated to reflect MEASURE 3.0

Click here to view previous modification log.



## McMaster Vena – Instructor Contributor Guide (macOS)

Version 3.00

## **Table of Contents**

Introduction	4
Prerequisites	5
macOS	5
System Requirements	5
About the Vena Contributor Connector	5
Installing Vena for Mac Users	5
Enabling Trust Access to the VBA Project Object Model	7
Other Operating Systems	8
Instructions to Access a Virtual Machine:	8
Questions/Comments/Technical Support:	8
Annual Timeline	9
Accessing Vena	11
Changing Vena Password	11
Instructor Input	12
Vena Checklist	12
macOS Guide	12
Accessing Rubric Input Template	12
Updating Rubric Input Template	13
Viewing Summary Chart	17
Viewing Detailed Chart	17
Reports	18
Accessing the Reports	19
CEAB Attribute Report	20
Vena's Drill Down Feature	20
Faculty and Curriculum Committee Recommendation Report	21
Historical Course Measurement Report	22
Historical Program Measurement Report	23
Measurement Map Report	24
Cascade	25
Generating a Mass Course Report	25
Appendix I: Report Overview	27
Appendix II: Previous Modification Log	28

#### 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 <a href="http://measure.mcmaster.ca">http://measure.mcmaster.ca</a>

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

Technical Support: <a href="massure@mcmaster.ca">measure@mcmaster.ca</a>

## **Prerequisites**

#### macOS

**System Requirements** 

	Recommended		Minimum
Operating	Mac OS X version 10.10 or later		
System			
<b>MS Office</b>	Office 2016 for Mac or newer		
	<ul> <li>Click <u>here</u> for instructions to download Office (via UTS)</li> </ul>		
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		

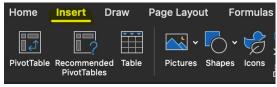
#### About the Vena Contributor Connector

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

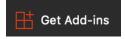
Similar to the Windows Add-In, the Contributor Connector enables users to perform various Vena functions in Excel, such as saving data inputs to the Vena database, choosing among data sets, drilling on intersection data, and working with Line Item Details.

#### 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"





#### 5. Press Add



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

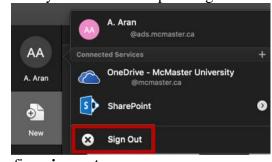


If Microsoft Office is preventing the installation of the add-in (i.e. Office has been configured to not allow individual add-ins), it is because the user is signed in as a domain user (ads.mcmaster.ca).

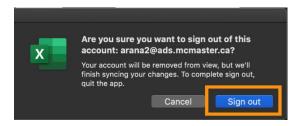
Signing in as a domain user will prevent users from adding certain Excel Add-ins because UTS controls what add-ins are allowed. Users will need to sign out to install the Vena add-in.

Steps to signing out:

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



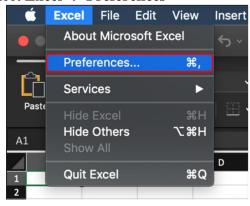
3. Confirm **sign out** 



#### 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.

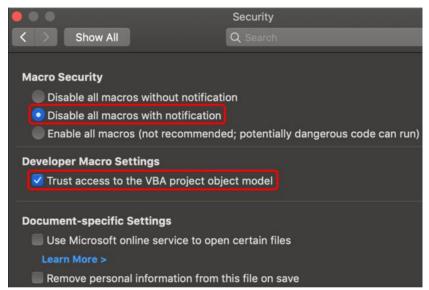
- 1. Open Excel
- 2. Select a Blank Workbook
- 3. Select Excel  $\rightarrow$  Preferences



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



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

## **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	<ul> <li>Review current rubric entry status</li> <li>Contact users who have yet to complete their Vena rubric entry</li> </ul>	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	<ul> <li>Review current rubric entry status</li> <li>Contact instructors who have yet to complete their Vena rubric entry</li> </ul>	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	<ul> <li>Archive previous year</li> <li>Start New Academic Year</li> <li>Update global variable and point to Term 1 (after Term 2 data entry is complete)</li> </ul>	Admin Guide	See Administrator's Guide	Associate Dean's Office
August	Update Measurement Mapping	Department Guide	See Department Guide	Department
August	Update Curriculum Mapping     Consult with Instructors	Department Guide	See Department Guide	Department
August	Update Curriculum     Recommendations	Department Guide	See Department Guide	Department
August	<ul> <li>Review Programs in Vena</li> <li>Notify Associate Dean's Office if changes are needed</li> </ul>	Department Guide	See Department Guide	Department
August	<ul> <li>Add/Update/Un-map courses in the Vena Database</li> <li>Do not delete Courses</li> </ul>	Department Guide	See Department Guide	Department
September	Faculty reviews departmental continuous improvement plan report from previous year	Admin Guide	See Administrator's Guide	Associate Dean's Office



## **McMaster Vena – Instructor Contributor Guide (macOS)**

Version 3.00

	•	Prepare/review Graduate Attribute Report			
December	•	Execute Backup and Restore Process	Admin Guide	See Administrator's Guide	Associate Dean's Office



## Accessing Vena

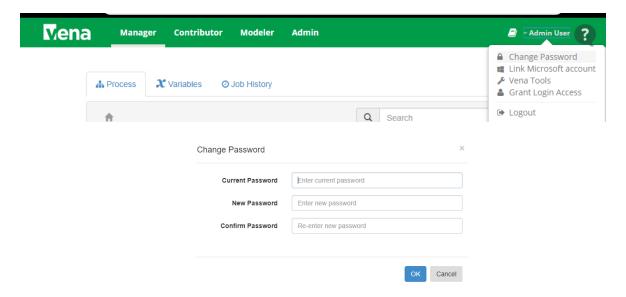
- 1. Open a web browser
- 2. Visit https://vena.io
- 3. In the email textbox, enter your McMaster email address (i.e. macid@mcmaster.ca)
- 4. Your password has been previously communicated. If you do not remember, or do not have an account, please contact Measure Support (measure@mcmcaster.ca)



## 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.





#### 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:

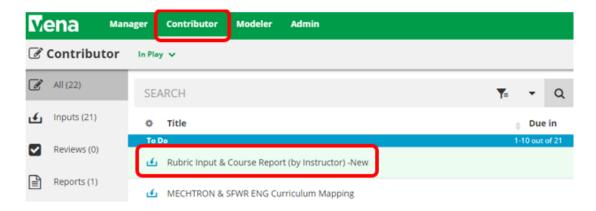
Task	macOS
The device meets the system requirements	Click here
Microsoft Excel 2010 or later is installed	Click here
Vena Add-In is installed	Click here
Enabling Trust Access to Vena	Click here

#### macOS Guide

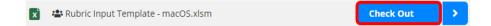
This section of the guide is intended for macOS users.

#### Accessing Rubric Input Template

- 1. Under Contributor view, select on Task Rubric Input & Course Report (by Instructor)
  - New



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



3. A new section will display to select the Course, Year, and Section

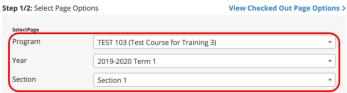




## McMaster Vena - Instructor Contributor Guide (macOS)

Version 3.00

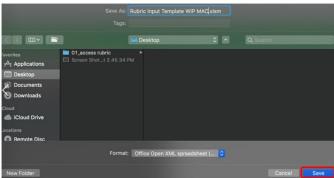
- a. **Program:** Select the course for data entry. Pressing the dropdown will let users see the list of available courses. However, typing the course name in the textbox will help find it quicker.
- b. **Year:** Press the dropdown button to select the corresponding year and term.
- c. **Section:** The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



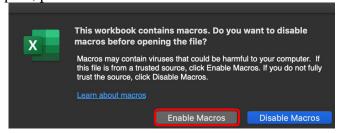
4. Press Download (Check Out)



5. A pop-up will appear to save the template. Click **save** and remember the saved location of the template.



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



#### **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.

## McMaster Vena - Instructor Contributor Guide (macOS)



Version 3.00

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

#### 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								
Measurement Analysis at the	Changes in Course content	Changes in Course delivery	Changes in Pre-requisite	Changes in assessment method or rubrics	Suggestions to improve the			
indicator / topic level:	(if applicable):	(if applicable):	(if applicable):	(if applicable):	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

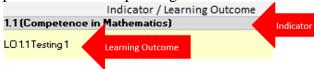




#### 5. Indicators/Learning Outcomes

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

**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
- button under the Line Item Details section
  - 1. The selected Learning Outcome row will be removed

#### c. Missing Indicators

i. If an indicator is missing or is not required, please contact your department representative or MEASURE Support 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 column "Used (1/0)" is set to 1 if the data in a particular row is used for the calculation of the indicator.

## McMaster Vena – Instructor Contributor Guide (macOS)



Version 3.00

If users wish to record the information for future reference, but do not intend for it to be averaged into the indicator, enter a 0. The default value is 0.

- a. **Enter** a **1** or **0** for each row
  - i. If you are unsure, enter 1 to include the number with the average indicator

#### 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

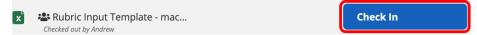
#### 11. Saving Data

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

#### 12. Closing and Checking in the Template

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





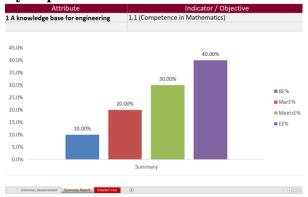


#### Viewing Summary Chart

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.

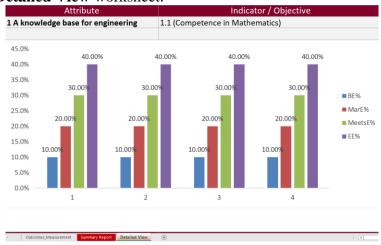


**Tip**: If the charts do not reflect the data, click Vena's Save button, close and check-in the template, then check-out and download the template.

#### 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.





#### McMaster Vena - Instructor Contributor Guide (macOS)

Version 3.00

**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

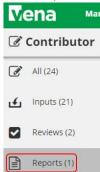


## Accessing the Reports

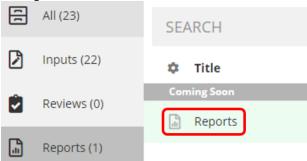
1. Ensure the Contributor tab is selected



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



3. Click Reports





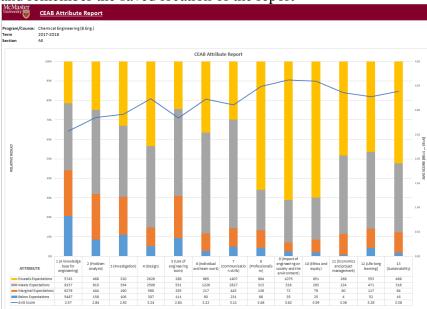
#### **CEAB Attribute Report**

The CEAB Attribute Report displays the attribute results of a given program/course by year or term. Each bar in the report represents a Graduate Attribute. The bar may divide into 4 expectations.

The line indicates the average score for each attribute where 1 = Below expectations and 4 = Exceeds expectations.

- 1. Press View next to CEAB Attribute Report
- 2. Select a Course/Program, Term, and Section

3. **Download** and remember the saved location of the report



#### Vena's Drill Down Feature

The Drill down feature enables users to view the raw data making up the sum of a selected expectation.

1. Select a cell intersecting an Attribute and Expectation

Attributes	Expectations						
Actibutes	Below Expectations	Marginal Expectations	Meets Expectations	Exceeds Expectations			
1 (A knowledge base for engineering)	1194	1352	4330	2911			
2 (Problem Analysis)	566	333	804	1528			
3 (Investigation)	162	108	606	1862			
4 (Design)	279	571	1782	1192			
5 (Use of engineering tools)	132	153	613	345			
6 (Individual and team work)	27	24	273	264			
7 (Communication skills)	45	182	1210	689			
8 (Professionalism)	53	137	67	937			
9 (Impact of engineering on society and the environment)	19	62	381	1103			
10 (Ethics and equity)	16	299	604	75			
11 (Economics and project management)	5	22	13	258			
12 (Life-long learning)	21	135	274	342			

#### 2. Select Drill Down

a. For **Windows users**, select Vena Tab  $\rightarrow$  Drill  $\rightarrow$  Drill Down



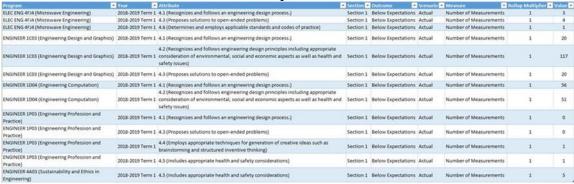


b. For macOS users, select Drill Down



3. A new Excel worksheet will be generated displaying a breakdown of the data by course, year, attribute, section, value, etc.

a. The sum of the value column will equal the value of the selected cell



#### Faculty and Curriculum Committee Recommendation Report

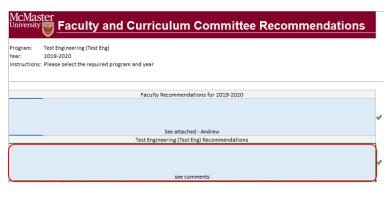
Displays the recommendations from the curriculum committee at both course and program level. This report can be viewed for any year where data is available. The data comes from the feedback provided in the Curriculum Committee Recommendations Input Template and as described in the Departmental Guide.

- 1. Press View 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



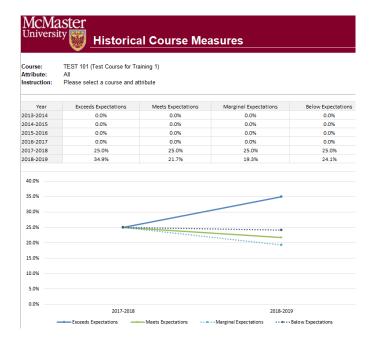
- 4. For macOS users, click ≡ View All under Vena Comments
- 5. On the right-hand side, select the attached file

#### Historical Course Measurement Report

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

- 1. Press View 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



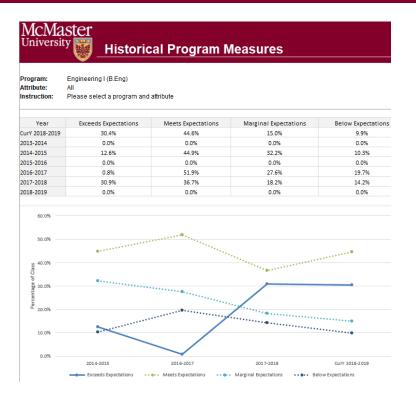


#### Historical Program Measurement Report

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

- 1. Press View 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 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

McMaster University Measured	Indicators Map											
Program: Year: Instructions:	Software Engineering (B. Eng.) 2019-2020 Please Enter Measured Attribute M - Measured											
Attribute	Indicator	SFWRENG ZAA4 (Software Design I – Introduction to Software Development)	SFWRENG 2003 (Data Structures and Algorithms)	SFWRENG 2DA4 (Digital Systems and Interfacing)	SFWR ENG 2DM3 (Discrete Mathematics with Applications I)	SFWRENG 2FA3 (Discrete Mathematics and Applications II)	SFWR ENG 2GA3 (Computer Architecture)	SFWR ENG 2S03 (Principles of Programming)	SFWHENG 2XA3 (Software Engineering Practice and Experience: Software	SFWRENG 2XB3 (Software Engineering Practice and Experience: Binding Theory to	CDMP SCI4TB3 (Syntax-Based Tools and Compilers)	SFWR ENG 4F03 (Distributed Computer Systems)
1 (A knowledge base for												
engineering)	1.1(Competence in Mathematics)	М		M								
	1.2 (Competence in Natural Sciences)											
	1.3 (Competence in Engineering Fundamentals)		M			М		M				
	1.4 (Competence in Specialized Engineering knowledge)	М	M	M	М	М	M				M	M
2 (Problem Analysis)	<ol> <li>I (Demonstrates an ability to identify reasonable assumptions (including identification of uncertainties and imprecise information) that could or should be made before a solution path is proposed)</li> </ol>	м	М	м		м	М		м	м		
	<ol> <li>2.2 (Demonstrates anability to identify a range of suitable engineering fundamentals (including mathematical techniques)</li> </ol>											
	that would be potentially useful for analyzing a technical problem)  2.3 (Obtains substantiated conclusions as a result of a problem	М	М	М		М	М	М				
	solution including recognizing the limitations of the solutions)		M		M	M	M			M		M
3 (Investigation)	3.1(Recognizes and discusses applicable theory knowledge	М	M			M	M					M
	3.2 (Selects appropriate model and methods and identifies assumptions and constraints)	м	М			м	М		м	м		
	3.3 (Estimates outcomes, uncertainties and determines appropriate data to collect)	м			м					м		М
4 (Design)	4.1(Recognizes and follows an engineering design process.)	M	M	M	M	M	M		M			
	4.2 (Recognizes and follows engineering design principles including appropriate consideration of environmental, social and economic aspects as well as health and safety issues)	м	М	м	м	м	м			м		
	4.3 [Proposes solutions to open-ended problems]	M		M	м	141				M		
	4.4 (Employs appropriate techniques for generation of creative ideas such as brainstorming and structured inventive thinking)	.11		."								
	4.5 (Includes appropriate health and safety considerations)											
	4.5 (Includes appropriate health and safety considerations) 4.6 (Determines and employs applicable standards and codes of practice)											
5 (Use of engineering tools)	5.1(Evaluates and selects appropriate modern tools)											
o (use or engineering tools)	5.2 (Demonstrates and ability to use modern/state of the art tools)	М		М				М		М		М



#### 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** 



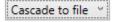
Select a dimension to cascade:

Program

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

☐ Test Engineering	
TEST 101	Test Course for Training 1
TEST 102	Test Course for Training 2
TEST 103	Test Course for Training 3
TEST 104	Test Course for Training 4
TEST 105	Test Course for Training 5
TEST 106	Test Course for Training 6
TEST 107	Test Course for Training 7
TEST 108	Test Course for Training 8
TEST 109	Test Course for Training 9
TEST 110	Test Course for Training 10

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



- 8. Choose a location to save the files
- 9. Click **OK**



McMaster University

Version 3.00

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 107 (Test Course for Training 7) Course Report. - Program TEST 108 (Test Course for Training 8) Course Report. - Program TEST 109 (Test Course for Training 9) -

Course Report. - Program TEST 110 (Test Course for Training 10) -



## Appendix I: Report Overview

Repor	t 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 Attribute Report	Displays a bar chart of the rubric data entered for
	each graduate attribute in a given program/course
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	Displays the committee recommendations for the
Report	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



## 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,	Evan Situ	Removed Other Resource
	2016		
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