

Administrator Guide for MEASURE

Faculty of Engineering, McMaster University

January 9, 2020

BY

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Modification Log

Version	Modification Date	Author	Comments
3.00	January 9, 2020	Andrew Aran	Initial Draft

Click [here](#) to view previous modification log.

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Introduction

The Administrator Guide is 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 faculty level. Specifically, the Office of the Dean will update the following:

- Adding Users
- Updating passwords
- Archiving data
- Creating new academic year
- Creating/Updating reports (where applicable)
- Providing technical support

Additional information on MEASURE can be found in the Instructor's Guide and Department 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

Prerequisites

Administrator functionality is currently compatible for Vena users with Windows operating system. Enhancements will be implemented by Vena in the future to enable macOS compatibility.

Vena Administrative Rights

Vena Administrative rights will be required for...

- User management
- Creating and running ETL (Extract, Transform, and Load) processes
- Archiving accreditation data
- Creating new academic years
- Creating and updating Vena templates and reports

To request access, contact measure@mcmaster.ca.

Windows

System Requirements

	Recommended	Minimum
Operating System	Latest version of Windows 10 (64-bit)	Windows 7 (32-bit)
MS Office	Office 2016 or newer <ul style="list-style-type: none"> • Click here for instructions to download Office (via UTS) 	Office 2010
.NET	Latest version of .NET	4.5
Browser	Latest version of: <ul style="list-style-type: none"> • Internet Explorer • Microsoft Edge • Mozilla Firefox • Google Chrome 	<ul style="list-style-type: none"> • Internet Explorer 10+ • Microsoft Edge • Mozilla Firefox 12.0+ • Google Chrome
RAM	16 GB	4 GB
CPU	2+ Cores	--
Reference:	https://support.venasolutions.com/hc/en-us/articles/115000622006-Vena-Add-In-System-Requirements	

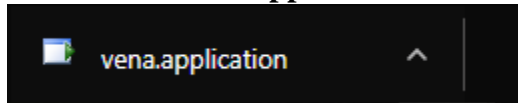
About the Vena Add-In

Vena uses both Microsoft Excel and the Vena website (<https://vena.io>) to give users access to the various templates and accreditation reports. Before users can update their course data in Excel, they will need to install the Vena Add-In for Microsoft Excel. This Add-In provides functionality to Excel that allows users to view, edit, and save their rubric data to the Vena cloud.

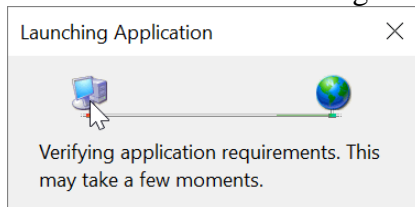
Installing Vena Add-In for Windows Users

1. Visit the add-in website <http://addin.vena.io/release/vena.application>

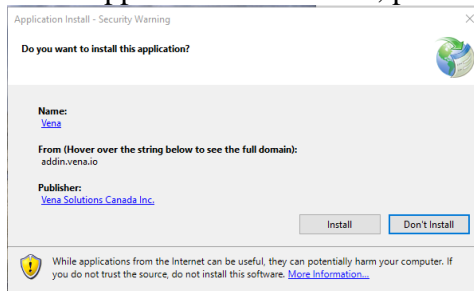
2. Save the **vena.application** file
3. Double-click the **vena.application** file



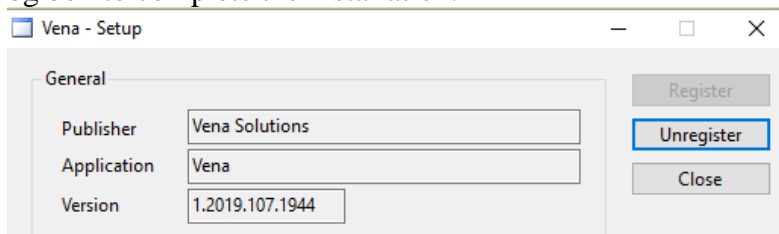
4. Run the installer. The following dialog box will appear:



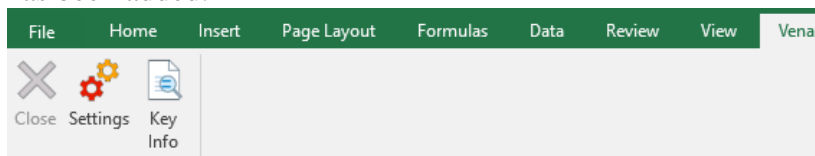
5. When the application has loaded, press **Install**



6. When the installation has completed, the following dialog box will appear. **Close** this dialog box to complete the installation.



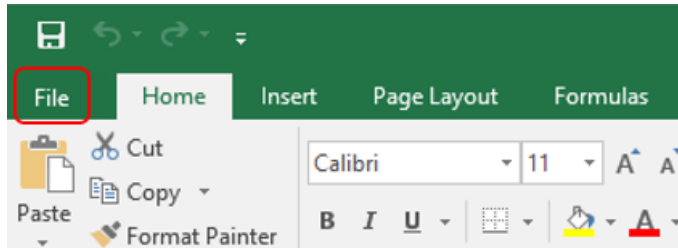
7. To ensure Vena has successfully installed, open Microsoft Excel, and confirm the Vena tab has been added.



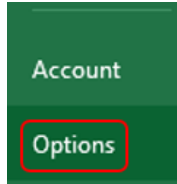
Enabling Trust Access to the VBA Project Object Model

After installing the Excel Vena Add-in, access to the VBA project object model will need to be trusted for Vena to run properly.

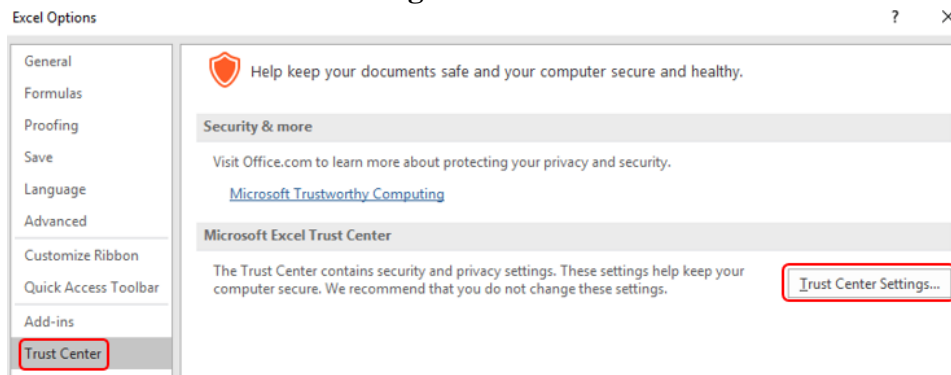
1. Open **Excel**
2. Select a **Blank Workbook**
3. Select **File**



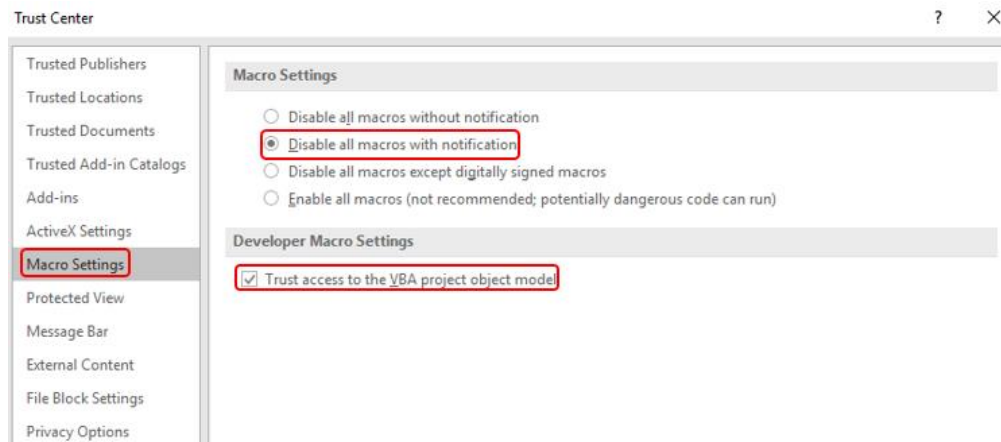
4. On the bottom of the left menu, select **Options**



5. Select **Trust Center**
 - a. Select **Trust Center Settings**



6. Select **Macro Settings**
7. Ensure that **Disable all macros with notification** is selected
8. Check the box next to **Trust access to the VBA project object model**



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

Other Operating Systems

Administrator functionality is currently compatible for Windows 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. The Administrator's responsibilities are highlighted in **green**.

The timeline table shows an entry for adding courses, but no time slot for deleting courses that are no longer offered. This is because courses are not deleted, since deleting them will remove all of the historical data associated with the course. Courses can be removed from a specific program, but should not be removed from the Vena database. Courses that are no longer offered should be moved to the unmapped folder, as described in the Departmental Guide.

Date	Task Description	Section	Template	Task Owner
January	<ul style="list-style-type: none"> Instructor enters rubric and continuous improvement plan for Term 1 	Instructor Guide	Rubric Input Template	Instructor
January	<ul style="list-style-type: none"> Instructor reviews the continuous improvement plan from the previous year for Term 1 	Instructor Guide	Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)	Instructor
January	<ul style="list-style-type: none"> Review current rubric entry status Contact instructors who have yet to complete their Vena rubric entry 	Department Guide	Rubric Entry Report	Department
April	<ul style="list-style-type: none"> Update global variable and point to Term 2 (after Term 1 data entry is complete) 	Click here	Input Variables Template	Associate Dean's Office
May	<ul style="list-style-type: none"> Instructor enters rubric and continuous improvement plan for Term 2 	Instructor Guide	Rubric Input Template	Instructor
May	<ul style="list-style-type: none"> Instructor reviews continuous improvement plan from the previous year for Term 2 	Instructor Guide	Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)	Instructor
May	<ul style="list-style-type: none"> Review current rubric entry status Contact instructors who have yet to complete their Vena rubric entry 	Department Guide	Rubric Entry Report	Department
May	<ul style="list-style-type: none"> Curriculum committees review (this year) course reports and continuous improvement plan reports 	Department Guide	Course Report and Rubric Input Template (Instructor Guide)	Department
August	<ul style="list-style-type: none"> Archive previous year 	Click here	Archive Data (ETL)	Associate Dean's Office
	<ul style="list-style-type: none"> Start New Academic Year 	Click here	New Academic Year (ETL)	
	<ul style="list-style-type: none"> Update global variable and point to Term 1 (after Term 2 data entry is complete) 	Click here	Input Variables Template	
August	<ul style="list-style-type: none"> Update Measurement Mapping 	Department Guide	Measured Indicators Input Template	Department
August	<ul style="list-style-type: none"> Update Curriculum Mapping <ul style="list-style-type: none"> Consult with Instructors 	Department Guide	Curriculum Mapping Input Template	Department
August	<ul style="list-style-type: none"> Update Curriculum Recommendations 	Department Guide	Curriculum Committee Recommendations Input Template	Department

August	<ul style="list-style-type: none"> Review Programs in Vena Notify Associate Dean's Office if changes are needed 	Department Guide	Login Vena→ Modeler→ Members→ Program	Department
August	<ul style="list-style-type: none"> Add/Update/Un-map courses in the Vena Database Do not delete Courses 	Department Guide	Login Vena→ Modeler→ Members→ Program	Department
September	<ul style="list-style-type: none"> Faculty reviews departmental continuous improvement plan report from previous year Prepare/review Graduate Attribute Report 	Click here	Faculty Recommendations Template	Associate Dean's Office
December	<ul style="list-style-type: none"> Execute Backup and Restore Process 	Click here		Associate Dean's Office

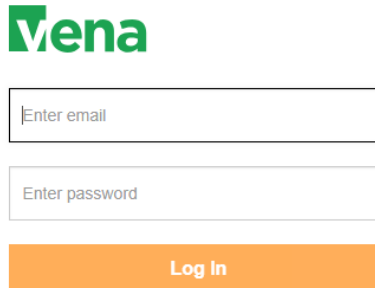
Ad hoc Tasks

Below is a list of ad hoc tasks the Vena Administrator would execute throughout the year.

Task Name	Task Description	Section
Manage Vena Users	<ul style="list-style-type: none"> Add, remove, update users 	Click Here
	<ul style="list-style-type: none"> Assigning users to a process 	Click Here
Versioning	<ul style="list-style-type: none"> A versatile feature that allows you to copy data from one portion of your database and write it to another portion Helps to consolidate rubric data into a single Reference 	Click Here
Cascade	<ul style="list-style-type: none"> This feature enables users to generate the same Vena report for multiple courses/programs <ul style="list-style-type: none"> I.e. Generate multiple Course Reports 	Click Here
Force Check-Ins	<ul style="list-style-type: none"> A template that has been checked out by a user who is unavailable and it needs to be checked back in 	Click Here
Unsubmit	<ul style="list-style-type: none"> This feature helps unsubmit a task if it has inadvertently been submitted 	Click Here
Update Course List	<ul style="list-style-type: none"> The Course List worksheet is updated when a course has been added, removed, or changed 	Click Here
Reports	<ul style="list-style-type: none"> Generate reports from the rubric data Vena Administrators will also be able to create Excel-based charts to meet user needs (Refer to Vena Documentation) <ul style="list-style-type: none"> For support, contact Vena Support 	Click Here

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@mcmaster.ca)

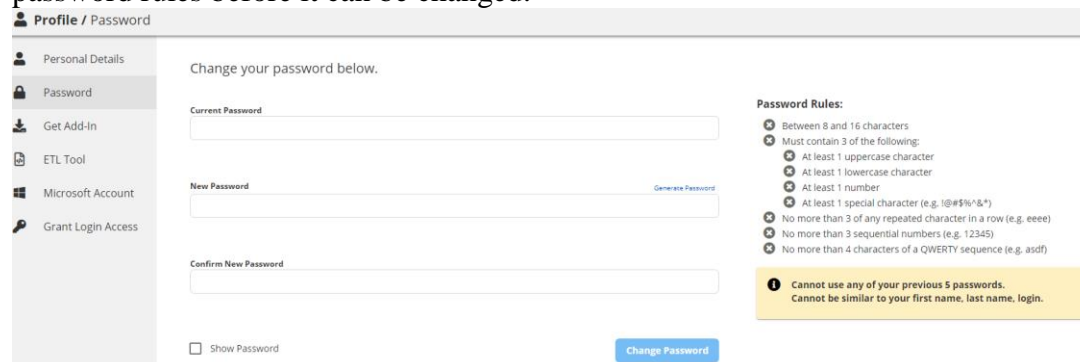


The Vena login form features the Vena logo at the top. Below it are two input fields: 'Enter email' and 'Enter password'. At the bottom is an orange 'Log In' button.

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 "Password" on the menu.

You will be prompted to enter the current and new password. The password must meet all password rules before it can be changed.



The password change interface shows a sidebar with options: Personal Details, Password (selected), Get Add-in, ETL Tool, Microsoft Account, and Grant Login Access. The main area prompts the user to 'Change your password below.' and includes fields for 'Current Password', 'New Password' (with a 'Generate Password' link), and 'Confirm New Password'. A 'Show Password' checkbox and a 'Change Password' button are at the bottom. On the right, 'Password Rules' are listed:

- Between 8 and 16 characters
- Must contain 3 of the following:
 - At least 1 uppercase character
 - At least 1 lowercase character
 - At least 1 number
 - At least 1 special character (e.g. !@#%&'&*)
- No more than 3 of any repeated character in a row (e.g. eeee)
- No more than 3 sequential numbers (e.g. 12345)
- No more than 4 characters of a QWERTY sequence (e.g. asdf)

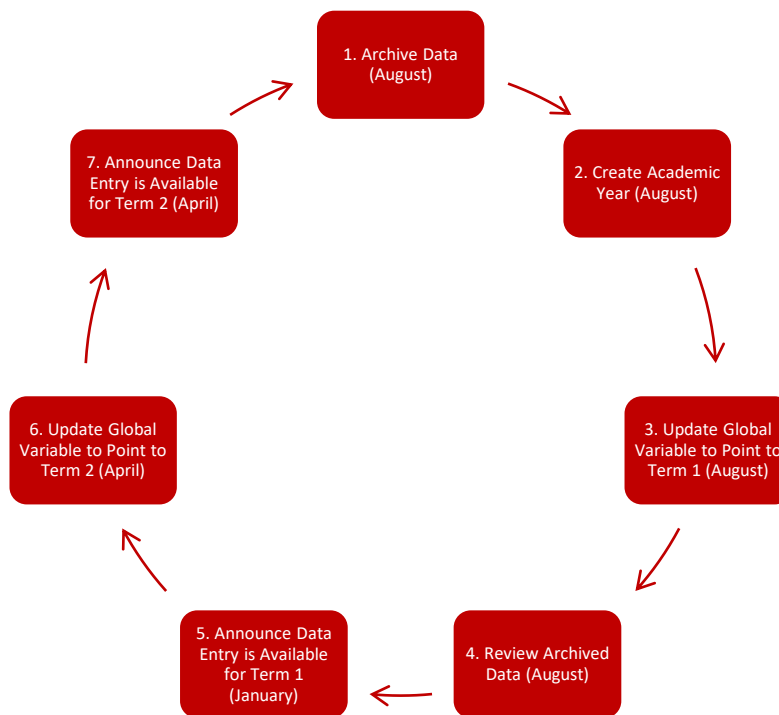
 A warning box states: 'Cannot use any of your previous 5 passwords. Cannot be similar to your first name, last name, login.'

New Academic Year Process

At the end of every academic year, it is required to archive the rubric data for the year, create a new academic year, and evaluate the data to ensure data integrity is maintained.

The processes below will guide the Vena Administrator with supporting the academic cycle. For task tracking purposes, create a new project in GitHub: <https://github.com/smiths/MEASURE>.

Vena Academic Cycle



Archiving Vena Data

After rubric data has been entered for the year, the Vena Administrator will execute the Vena archiving process.

Historical Program Measurement Archive

Only archive the program measurement when the program is fully completed. The purpose of archiving the program measurement data is to track the historical trend of a program.

The purpose of archiving the data is so that the historical program measurement report can be generated.

1. Ensure all Vena templates have been checked in.
 - a. Login to <https://vena.io>
 - b. Contributor → Inputs → “See More To Do Inputs”
 - c. Confirm every template has checked in
 - i. If a template is checked out, the user’s name will be listed below the template as “Checked Out”



2. If a template is checked out and the user who checked out the template is unavailable, a Force Check-In is required.

3. Submit the task.

Only the task owner has the ability to submit the task.

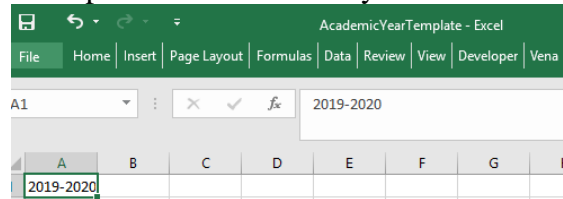
- Contributor → Inputs → **Rubric Input & Course Report (by Instructor) –New**
- Click **Submit**

✕ Rubric Input & Course Report (by Instructor) -New
To Do

SUBMIT

4. Update the Academic Year Template

- Open the input template “AcademicYearTemplate.csv”
- Enter the new academic year data in cell “A1” (format yyyy-yyyy)
 - Example: If new academic year is 2019-2020, enter 2019-2020.



- Save

5. Run the Historical Program Measurement Archive ETL Job

- Modeler → Data Modeler → ETL → Templates → Run
- Click **Choose File** and select the AcademicYearTemplate.csv file from Step 4.
- Click **Import**

ETL Template Execution

Create Job For Template: Historical Program Measurement Archive

Historical Program Measurement Archive

#	Step	Data Type	Staging table	Name	Input Requirements
1	File To Stage	User Defined	ArchiveProgram		<div>Choose File AcademicY...late.csv</div> <div>CSV File format</div> <div>Unicode (UTF-8) File encoding</div> <div>0 Acceptable invalid lines</div> <div><input type="checkbox"/> Bulk insert</div>
2	SQL Transform				
3	Stage To Cube	Hierarchy	out_hierarchies		
4	Stage To Cube	Values	out_values		

Import Close

6. Reviewing ETL Job Status

The Historical Program Measurement Archive ETL Job will take approximately 5-10 minutes to complete.

- To review the ETL Job status, Modeler → History → **View Details** for Historical Program Measurement Archive

Status

All Clear Filters

COMPLETED View Details

- While running, the status will display **RUNNING**. When complete, the status will change to **Completed**.

- Click the Refresh button for an updated ETL status.

Historical Program Measurement Archive

Run by Admin User on Oct 09, 2019 01:53:35 PM
Job ID: 794362010204110849

Job Completed Successfully

This job completed on Oct 09, 2019 01:53:35 PM.

Steps Log Errors

#	Step	Started	Completed	Status	Data Changes	Rows Processed
1	Importing File "AcademicYearTemplate.csv" to SQL Staging Area <small>File Name: AcademicYearTemplate.csv Staging Table Name: ArchiveProgram</small>	2019-10-09 13:53:36	2019-10-09 13:53:37	COMPLETED		1 Download
2	SQL Transformation	2019-10-09 13:53:37	2019-10-09 13:57:11	COMPLETED		
3	Importing from SQL Staging Area (hierarchy) <small>Staging Table Name: out_hierarchies</small>	2019-10-09 13:57:11	2019-10-09 13:57:11	COMPLETED		0
4	Importing from SQL Staging Area (intersection_members) <small>Staging Table Name: out_values</small>	2019-10-09 13:57:11	2019-10-09 13:57:12	COMPLETED		6660
5	Importing from SQL Staging Area (intersections)	2019-10-09 13:57:12	2019-10-09 13:57:14	COMPLETED	6660 + 0 - 0 Refresh	6660

OK

7. Historical Program Measurement Report

Once the archive is complete, the historical program data will be available in the [Historical Program Measurement Report](#).

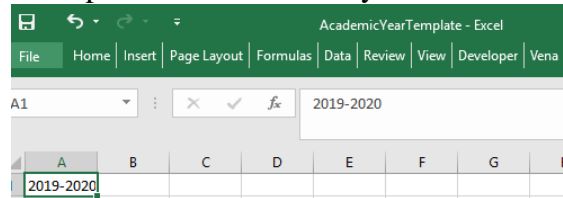
The historical program measurement report will not generate for any year's data that has not yet been archived.

Starting a New Academic Year

Be sure to complete the Historical Program Measurement Archive Process before starting a new academic year.


The current year's curriculum mapping and rubric information will be used as the starting point for a new academic year. An automated ETL Job built by Vena will be executed to create the new academic year.

1. Update the Academic Year Template
 - a. Open the input template “AcademicYearTemplate.csv”
 - b. Enter the new academic year data in cell “A1” (format yyyy-yyyy)
 - i. Example: If new academic year is 2019-2020, enter 2019-2020.



- ii.
- c. **Save**

2. Run the New Academic Year ETL Job

- a. Modeler → Data Modeler → ETL → Templates → Run 
- b. Click **Choose File** and select the AcademicYearTemplate.csv file from Step 4.
- c. Click **Import**

ETL Template Execution

Create Job For Template: New Academic Year

New Academic Year

#	Step	Data Type	Staging table	Name	Input Requirements
1	File To Stage	User Defined	NewAcademicYear		<div>Choose File AcademicYearTemplate.csv</div> <div>CSV File format</div> <div>Unicode (UTF-8) File encoding</div> <div>0 Acceptable invalid lines</div> <div><input type="checkbox"/> Bulk insert</div>
2	SQL Transform				
3	Stage To Cube	Hierarchy	out_hierarchies		
4	Stage To Cube	Values	out_values		
5	Stage To Cube	Line Item Details	out_lids		
6	Stage To Cube	Attributes	out_attributes		

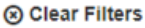
Import Close


3. Reviewing ETL Job Status

The New Academic Year ETL Job will take approximately 5-10 minutes to complete.


- a. To review the ETL Job status, Modeler → History → **View Details** for New Academic Year

Status


All 

 **COMPLETED** **View Details**

- b. While running, the status will display **RUNNING**. When complete, the status will change to **Completed**.

c. Click the  Refresh button for an updated ETL status.

New Academic Year
Run by **Andrew Aran** on Sep 27, 2019 03:39:01 PM
Job ID: 79003986597586944

 **Job Completed Successfully**
This job completed on Sep 27, 2019 03:39:01 PM.

#	Step	Started	Completed	Status	Data Changes	Rows Processed
1	Importing File "AcademicYearTemplate.csv" to SQL Staging Area <small>File Name: AcademicYearTemplate.csv Staging Table Name: NewAcademicYear</small>	2019-09-27 15:39:01	2019-09-27 15:39:02	COMPLETED		1
2	SQL Transformation	2019-09-27 15:39:02	2019-09-27 15:40:56	COMPLETED		
3	Importing from SQL Staging Area (hierarchy) <small>Staging Table Name: out_hierarchies</small>	2019-09-27 15:40:56	2019-09-27 15:40:56	COMPLETED		0
4	Importing from SQL Staging Area (intersection_members) <small>Staging Table Name: out_values</small>	2019-09-27 15:40:56	2019-09-27 15:40:56	COMPLETED		0
5	Importing from SQL Staging Area (intersections) <small>Staging Table Name: out_values</small>	2019-09-27 15:40:56	2019-09-27 15:40:56	COMPLETED	0 + 0 - 0	0

OK

4. After the ETL Job is complete, the newly created academic year will appear under the Year Dimension

a. Modeler → Year

Members | Attributes | Versioning | ETL | Settings

Dimensions

Program

Year

Attribute

Section

Outcome

Scenario

Measure

New dimension name + -

Dimension Members

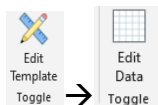
Member Name	Alias
All	Empty
2013-2014	Empty
2014-2015	Empty
2015-2016	Empty
2016-2017	Empty
2017-2018	Empty
2018-2019	Empty
2019-2020	Empty
2019-2020 Term 1	Empty
2019-2020 Term 2	Empty
2019-2020 Term 3	Empty
2019-2020 Default	Empty

Updating Global Variable

Below are the steps to successfully update a Global Variable. Updating the term global variable will prevent entering the incorrect term/year in the input templates.

- Download the **Input Variables Template**
 - Manager → Home → Accreditation 2.0 → Files Library → Input Forms → Data Controls → Input Variables Template.xlsx
- Open the Input Variables Template
 - Click **Enable Editing** if the pop-up appears
- Change to Template Edit Mode
 - If in Edit Data mode, switch to Template Edit mode by clicking Edit Template

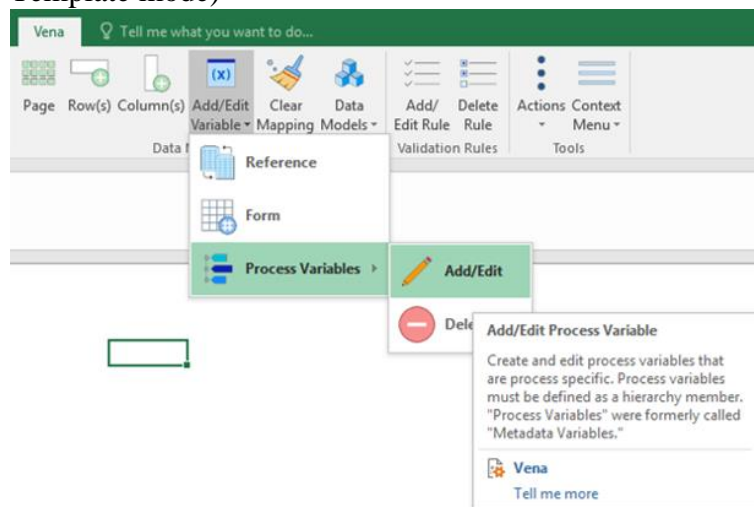
- i. The button should toggle to display “Edit Data”



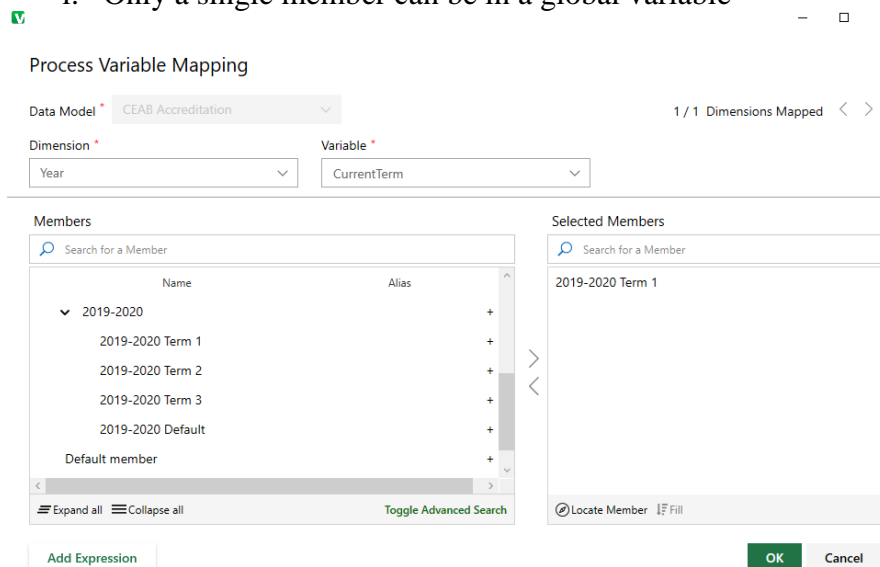
4. Update the Process Variable
- a. Select the cell with the value of the Global Variable



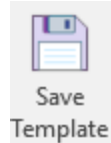
- b. Click Add/Edit Variable → Process Variables → Add/Edit (must be in Edit Template mode)



- c. Update the respective variable with the new member
- i. Only a single member can be in a global variable



- d. Close the variable window and Save Template.



Review Archived Data

After archiving the data, creating a new year, and pointing to a new term, it is recommended to generate and review the previous years' reports and test the input templates before announcing the new academic year is available.

Generate and review the previous years' reports to ensure rubric data is consistent:

- ✓ Historical Course Measurement Report.xlsm
- ✓ Historical Program Measurement Report.xlsm
- ✓ CEAB Attribute Report

Test Plan Reference: <https://github.com/smiths/MEASURE/issues/251>

Test Plan for the Vena Templates	
Template	Test Criteria
Curriculum Committee Recommendations Input Template.xlsm	<ul style="list-style-type: none"> ✓ Data entry/save is working as expected ✓ Previous year data and attachments are available
Curriculum Mapping Input Template.xlsm	<ul style="list-style-type: none"> ✓ Previous year mapping carried over to new year ✓ New year mapping can be updated
Faculty Recommendations Input Template.xlsm	<ul style="list-style-type: none"> ✓ Data entry/save is working as expected ✓ Previous year data and attachments are available
Measured Indicators Input Template.xlsm	<ul style="list-style-type: none"> ✓ Previous year mapping carried over to new year ✓ New year mapping can be updated
Rubric Input Template.xlsm (Win & macOS)	<ul style="list-style-type: none"> ✓ Data entry/save is working as expected ✓ Learning outcomes carry over in correct sequence ✓ Comments/Assumptions do not populate ✓ Summary and Detailed View Reports are working as expected
Course Report.xlsm	<ul style="list-style-type: none"> ✓ Summary/Detailed Chart button is working as expected

Test Plan Reference: <https://github.com/smiths/MEASURE/issues/250>

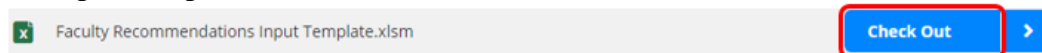
Announcements

After successfully testing the Vena reports and templates, send an email announcing data entry is available for the current term. This is also a good opportunity to provide any key updates such as new reports, bug fixes, due dates, etc.

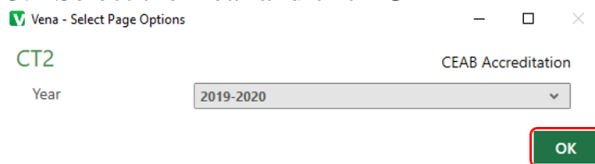
Faculty Recommendations Template

Faculty can share their recommendations by using the Faculty Recommendations Template. Once the recommendations are saved, they can be seen as a read-only report by generating the [Faculty and Curriculum Committee Recommendations Report](#).

1. Login to <https://vena.io>
2. Contributor → Faculty Recommendations → **Check Out** Faculty Recommendations Input Template.xlsm

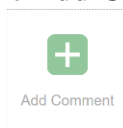


3. Select the Year and click **OK**



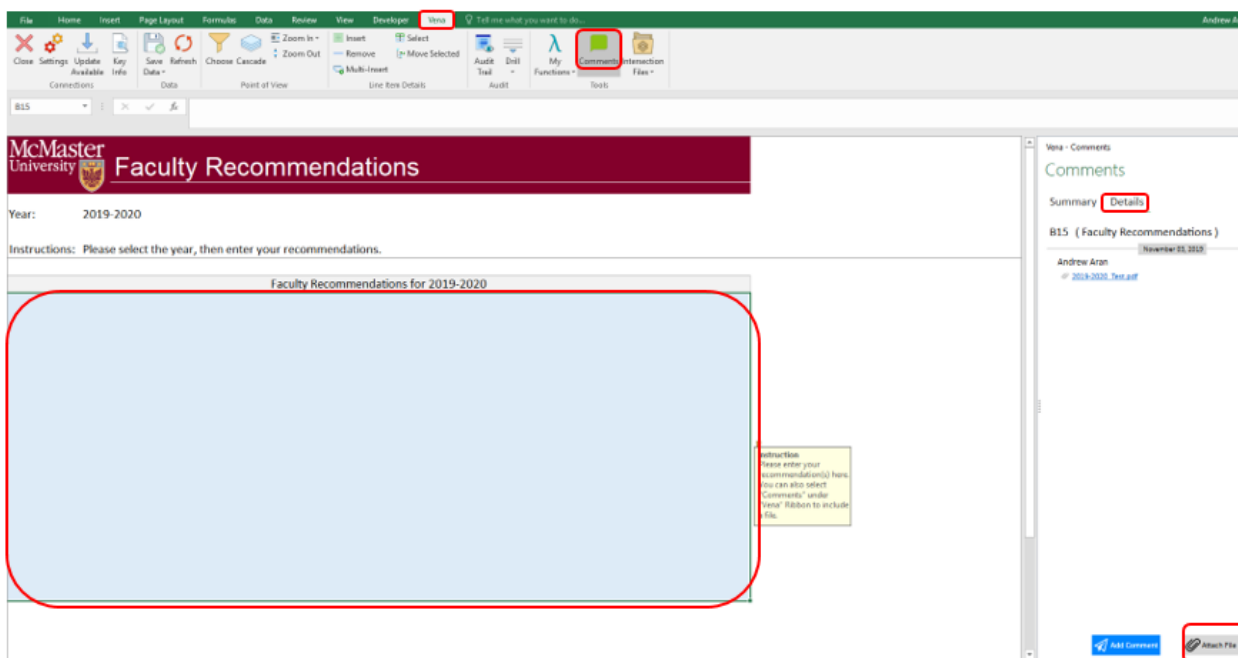
4. Recommendations can be entered as text in the Faculty Recommendations Vena Template or captured in a Word or PDF report. Therefore, there is an option to attach a file to the recommendations.

- To attach a file to your recommendations,
 - Click the **Vena** Tab
 - Click the empty section below the “Faculty Recommendations for 20XX-20XX”
 - Click **Comments**
 - In the Comments section, click **Details** Tab
 - Click the **Add Comment** button



- Click the **Attach File** and attach your file
- Click **Upload** when asked to upload the file as a comment

When attaching a file as a comment, please write text in the associated field to let future readers know that additional information is available as a comment. Something similar to the following would be fine: “For additional information, please see report attached to this cell”.



5. Click **Save Data** under **Vena** Tab and **Check in** the file

Backup and Restore Process

The purpose of executing the backup and restore process is to ensure data integrity is maintained and data is recoverable in the event of an actual disaster.

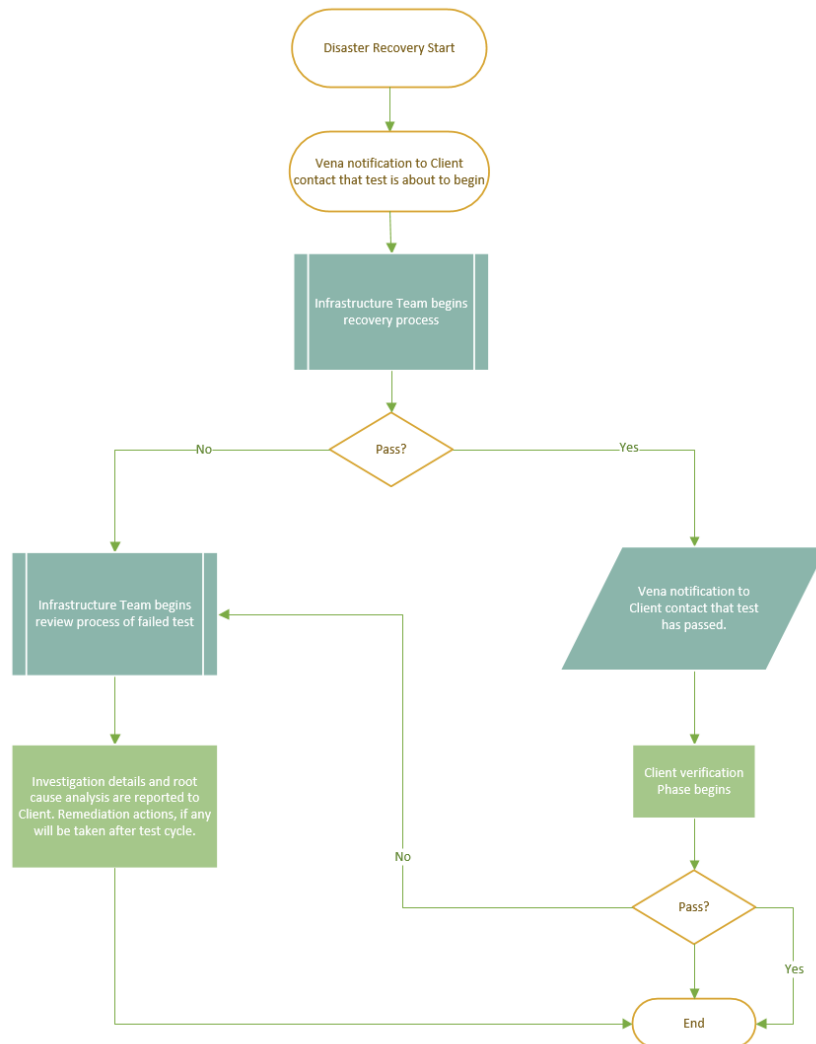
1. The Administrator and Vena coordinate a date/time to create and test the DR (disaster recovery) environment.
2. Prior to creating the DR environment, the Administrator will record information from the production environment. This information will be used to compare with the DR environment.
 1. Insert data – A copy of a template from the latest users to insert data
 2. Update data – A copy of a template from the latest users to update data
 3. Delete data – A copy of a template from the latest users to delete data
 4. Users – A screenshot containing the current number of Vena users
 5. ETL Jobs – A screenshot containing the ETL jobs and the last time they were executed

Click [here](#) for reference and a sample test plan.

3. Vena notifies the Administrator the status of the DR environment.
4. If the DR environment is available, the Administrator will compare the data from step 2 with the DR environment.

5. If data from the DR environment is consistent with the production environment, the Backup and Restore Process was successful. Otherwise, review and notify Vena.
6. After testing, Vena destroys the DR environment and notifies the Administrator.

Disaster Recovery Flow Chart



Ad hoc Tasks

User Management

The Vena Administrator has the ability to add, update, and remove users.

Here are the roles usually assigned to users. Users can be given elevated roles such as Modeler, but will need to be reviewed and approved by the Dean's Offices

User Type	Vena Role	Description
Faculty/Staff	Contributor	Enter and submit rubric information
Department Representatives	Modeler	Update programs and courses
Dean's Office	Super Users, Admins, Managers	Maintain MEASURE

Adding a User

1. Login to <https://vena.io>
2. Admin → Users → Add User
3. Fill in the user information and select the Login Type
 - a. Default Login Type is **Contributor**
 - b. Users can also be assigned as an Admin, Manager, Modeler, or Reports
4. Click **Save**

Vena User Group

After a user has been created, they will need to be added to a Vena User Group.

1. Login to <https://vena.io>
2. Admin → Permissions → User Group
3. Select a user group
 - a. Default User Group is **Contributor** (unless stated otherwise)
 - b. Users can also be assigned as an Admin, Manager, Modeler, or Reports

Updating User Information

Vena Administrator's have the ability to update existing user information such as their name, email, user role, user group and status.

1. Login to <https://vena.io>
2. Admin → Users
3. Search the user by name or email address
4. Once the user is found, click the value that requires updating
 - a. Example: If the first name needs to be changed, click the value containing their first name
5. Update the value and press **Enter**

Removing a User

1. Login to <https://vena.io>
2. Admin → Users
3. Search the user by name or email address
4. Right-click the user and select **Remove User**
5. Confirm when prompted


Assigning User to a Process

Users will need to be assigned to a process to access the Vena Templates and Reports.


Vena Task Role	Description
Owner	Will have permissions to enter data and also submit/review the task
Support Worker	Will only have the ability to enter data on the templates Will not be able to submit or approve tasks)
Watcher	Will only be able to view the data in templates. Will not have permission to enter data or submit/approve/reject tasks

1. Login to <https://vena.io>
2. Manager → Process → Accreditation 2.0

If user is a **Faculty/Staff**, they will have access to the Rubric Input & Course Report Process.

1. Click **Rubric Input & Course Report Process**
2. Under the Support Worker Section, click the drop-down button 
 - a. Search the user by their email address or type their name
 - b. Select the user and press **Enter**

If user is a **Department Representative**, they will have access to their program's Measured Indicators and Curriculum Mapping Process.

1. Click **Curriculum Mapping/Measured Indicators Input Process**
2. On the left-hand side, select their program's **Measured Indicator Activity**
3. Double-click the **Measured Indicators Process**
4. Under the Support Worker Section, click the drop-down button  on the right-side of the selected role
 - a. Search the user by their email address or type their name
 - b. Select the user and press **Enter**
5. Double-click the **Curriculum Mapping Process** and follow step 4
6. Return to Main Processes and double-click **Reports**
 - a. Add user as a **Watcher**

If user is part of the **Dean's Office** or received elevated access...

1. Review their credentials and obtain authorization before providing **Owner** access to the processes

Versioning

This Vena feature allows Vena Administrators to copy data from one portion of a database and write it to another portion. It is useful when you want to copy rubric data from one program to another (Click [here](#) for reference).

To complete the steps outlined in this page, you will need at least Modeler access.

1. Login to <https://vena.io>
2. Modeler → Versioning
3. Select **Scenario**
4. Expand **ArchivedProgram**
5. Leave the Page(s) field blank
 - a. This ensures all data for all selected dimensions in the data model will be copied
6. Select the source program (from the expanded ArchivedProgram) and then press the ➡ button under the **Copy From** section
 - a. This indicates where the data will be copied from

Copy From

➡ Chemical Engineering and Biomedical Engineering (B.E) ⬅

b.

7. Select the destination program and then press the ➡ button under the **Copy To** section
 - a. This indicates where the data will be copied to

Copy To

➡ Chemical Engineering and Biomedical Engineering (B.E) ⬅



b.

8. Select **No**

Do you want to clear all destination intersection values before copying? ?

 - a. ☐ Yes ☒ No
9. Select **Yes, make separate copies**

Do you want to copy line items?

- ☐ No
- ☐ Yes, link to original 
- a. ☒ Yes, make separate copies 

10. Select **Yes**

Do you want to run calcs?

- a. ☒ Yes ☐ No

11. Select **Yes**


Do you want to version parent members?

- a. ☒ Yes ☐ No

12. Select **Run**

- a. 

13. Go to ETL History to ensure the job is complete

ETL Jobs 

Job ID	Job Name	Created On	Last Run	User	Data Model	Status
<input type="text" value="Filter"/>	<input type="text" value="Filter"/>	<input type="text" value="Filter by date"/>	<input type="text" value="Filter by date"/>	<input type="text" value="Filter"/>	<input type="text" value="All"/>	<input type="text" value="All"/>
707643031109304320	VERSIONING From: [Software and Biomedical Engineering (B.Eng. B.Sc.)] To: [Software Engineering and Biomedical Engineering (B.Eng. B.Sc.)]	2019-10-18 15:11:12	2019-10-18 15:11:12	Andrew Aron	CEAB Accreditation	COMPLETED View Details

a.

Cascade

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**

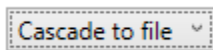
 Vena - Cascade

Select a dimension to cascade:

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

- Change option from Cascade to Sheet to **Cascade to File**




- Choose a location to save the files
- Click **OK**
- The Cascade feature will take approximately 5-10 minutes to complete

Name
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) -

Force Check-In


Occasionally, a template is checked out by a user who is unavailable and it needs to be checked back in. See the steps below for checking a template back in.

- If a template is checked out, try to contact the user and request them to check the template back in
- If the user is unable to check in the template, a “Force Check-In” is required
 - Manager → Home → Accreditation 2.0
 - On the left-hand side, select **Status Tracker**
 - Search for the template(s) that is currently checked out

- d. On the right-hand side, select **Task Actions** ⋮
- e. Select **View Checkouts**  View Checkouts
- f. Select the user by clicking the box next to their name
 - i. To select all users, click the box at the top row

Rubric Input Template - Windows.xlsm: 1 page option(s) checked out.

- ii.  Contributor Check Out Date
- g. Click **Force Check In** 
- h. A pop-up will appear confirming the template has been successfully checked in

 Page Options have been successfully checked in.

Unsubmit

If a task is inadvertently submitted, it is possible to “unsubmit” it. This is done by first pausing the process, then going to the status tracker. Right-click the submitted task and select the Reset Option. After this the process has to be unpaused.

CourseList – Rubric Input Template

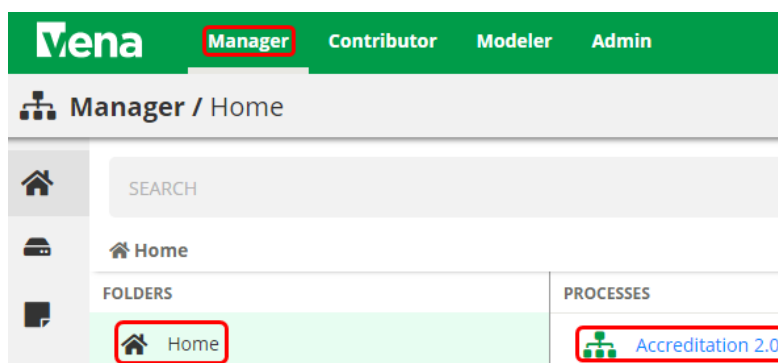
When a course is updated, added, or removed, the CourseList sheet in the Rubric Input Template will need to be updated as well. The CourseList sheet is responsible for validating the course name, term, and section against the Vena database. If there is a discrepancy, the rubric input template will display an error message to the user.

Updating the CourseList

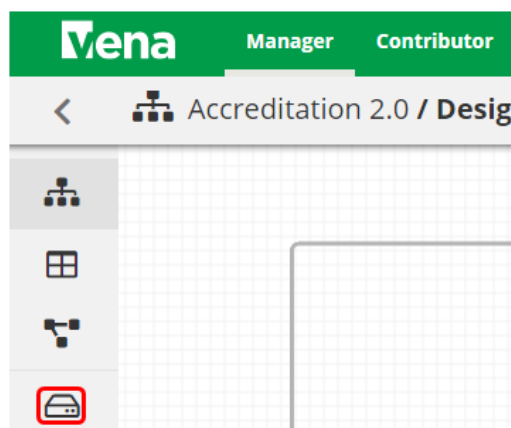
The following steps will need to be completed as a Vena Manager. Only the Vena Manager has the capability to update the template for all users.

*** Vena Manager mode can only be accessed by a Windows-based operating system ***

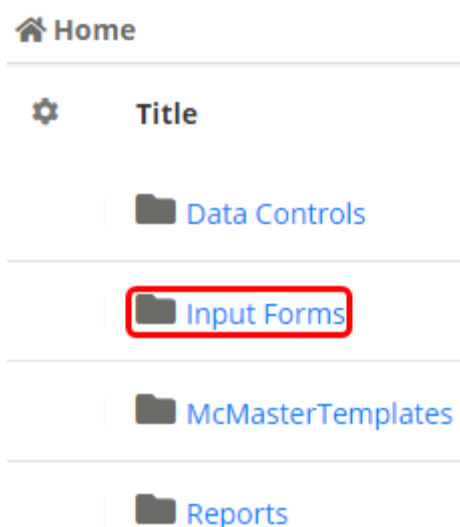
1. Under Manager view, select Home → **Accreditation 2.0**



2. On the left panel, select **Files Library**



3. Select **Input Forms**



4. Updating the **Windows and macOS Rubric Input Template**

When updating the course information, both templates will need to be updated.

a. Select **Rubric Input Template – Windows.xlsm**



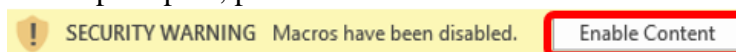
b. A pop-up will appear to save the template. Click **save** and remember the saved location of the template.

a. Open the Excel File

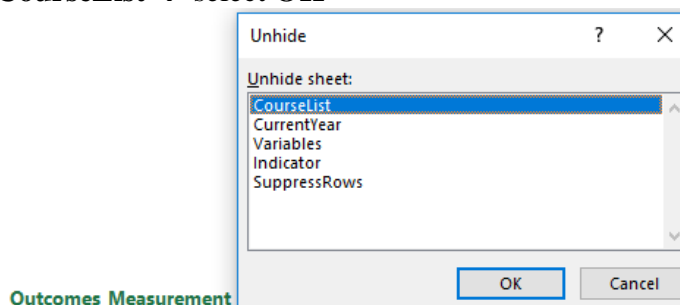
- If prompted, press **Enable Editing** in the Excel spreadsheet



- If prompted, press **Enable Content** to allow Macros



- c. Select a Course, Year, and Section
 - i. The choices selected will not matter since we will be updating the template
- d. Right-click the **Outcome_Measurement** sheet → select **Unhide** → select **CourseList** → select **OK**

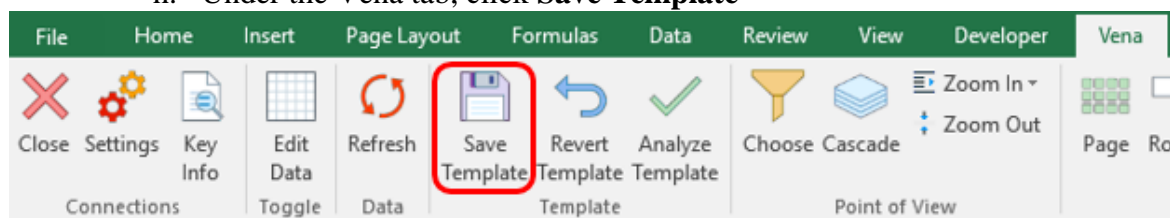


- e. Update the **Course; Term; Section** in the spreadsheet (Columns A-C)

	A	B	C	D
1	Course	Term	Section	Lookup
2	CHEM 1E03	Term 1	Section 1	CHEM 1E03Term 1Section 1
3	CHEM ENG 2D04	Term 1	Section 1	CHEM ENG 2D04Term 1Section 1
4	CHEM ENG 2G03	Term 1	Section 1	CHEM ENG 2G03Term 1Section 1

- f. Copy the Excel formula in **Column D** down
- g. Hide the **CourseList** sheet

- h. Under the Vena tab, click **Save Template**



- i. Close the **Rubric Input Template**

Repeat steps 1-5 for **macOS Rubric Input Template**

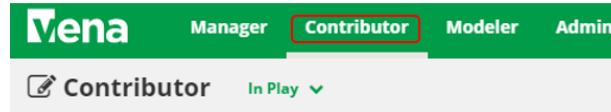
Reports

The data in the MEASURE database is viewed using spreadsheet reports. The purpose of the reports is to transform the information into a form that is suitable for review – including by the CEAB when necessary. Reports can be viewed for any year where the data has been entered.

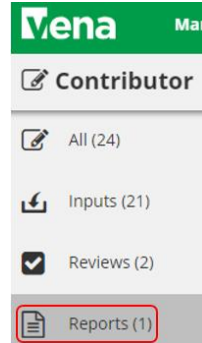
The Vena Reports are best viewed using a Windows-based operating system.

Accessing the Reports

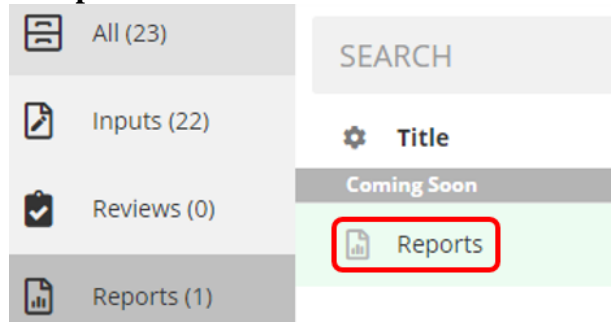
1. Ensure the Contributor tab is selected



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



3. Click **Reports**

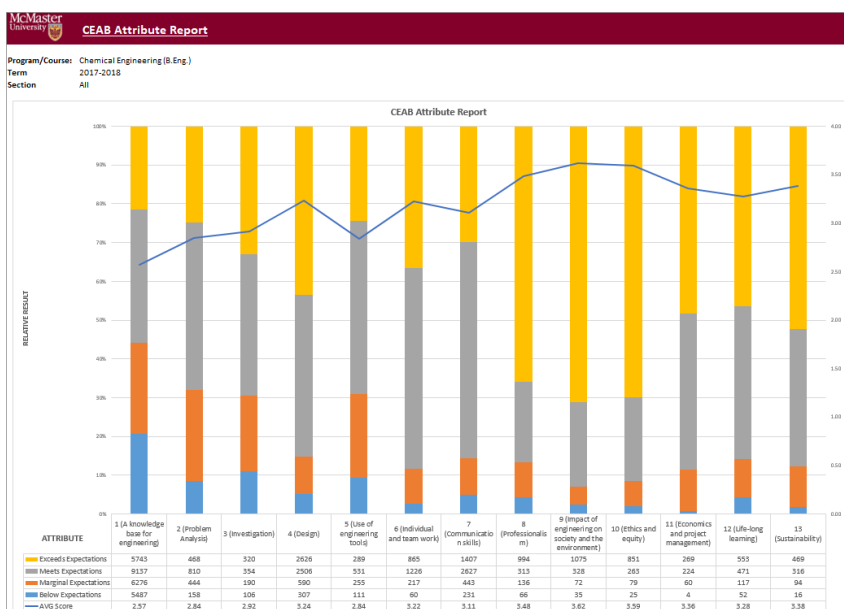


CEAB Attribute Report

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
4. If prompted, **Enable Content** and **Enable Macros**



Vena's Drill Down Feature

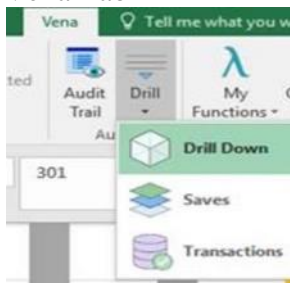
The Drill down feature enables users to view the raw data making up the sum of a selected expectation.

1. Select a cell intersecting an Attribute and Expectation

Attributes	Expectations			
	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 → Drill → Drill Down



- b. For **macOS users**, select Drill Down

 Drill Transactions

 Drill Saves

 Drill Down

c.

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

Program	Year	Attribute	Section	Outcome	Scenario	Measure	Rollup Multiplier	Value
ELEC ENG 4FJ4 (Microwave Engineering)	2018-2019 Term 1	4.1 (Recognizes and follows an engineering design process.)	Section 1	Below Expectations	Actual	Number of Measurements	1	3
ELEC ENG 4FJ4 (Microwave Engineering)	2018-2019 Term 1	4.3 (Proposes solutions to open-ended problems)	Section 1	Below Expectations	Actual	Number of Measurements	1	4
ELEC ENG 4FJ4 (Microwave Engineering)	2018-2019 Term 1	4.6 (Determines and employs applicable standards and codes of practice)	Section 1	Below Expectations	Actual	Number of Measurements	1	1
ENGINEER 1C03 (Engineering Design and Graphics)	2018-2019 Term 1	4.1 (Recognizes and follows an engineering design process.)	Section 1	Below Expectations	Actual	Number of Measurements	1	20
ENGINEER 1C03 (Engineering Design and Graphics)	2018-2019 Term 1	4.2 (Recognizes and follows engineering design principles including appropriate consideration of environmental, social and economic aspects as well as health and safety issues)	Section 1	Below Expectations	Actual	Number of Measurements	1	117
ENGINEER 1C03 (Engineering Design and Graphics)	2018-2019 Term 1	4.3 (Proposes solutions to open-ended problems)	Section 1	Below Expectations	Actual	Number of Measurements	1	20
ENGINEER 1D04 (Engineering Computation)	2018-2019 Term 1	4.1 (Recognizes and follows an engineering design process.)	Section 1	Below Expectations	Actual	Number of Measurements	1	56
ENGINEER 1D04 (Engineering Computation)	2018-2019 Term 1	4.2 (Recognizes and follows engineering design principles including appropriate consideration of environmental, social and economic aspects as well as health and safety issues)	Section 1	Below Expectations	Actual	Number of Measurements	1	51
ENGINEER 1P03 (Engineering Profession and Practice)	2018-2019 Term 1	4.1 (Recognizes and follows an engineering design process.)	Section 1	Below Expectations	Actual	Number of Measurements	1	0
ENGINEER 1P03 (Engineering Profession and Practice)	2018-2019 Term 1	4.3 (Proposes solutions to open-ended problems)	Section 1	Below Expectations	Actual	Number of Measurements	1	0
ENGINEER 1P03 (Engineering Profession and Practice)	2018-2019 Term 1	4.4 (Employs appropriate techniques for generation of creative ideas such as brainstorming and structured inventive thinking)	Section 1	Below Expectations	Actual	Number of Measurements	1	1
ENGINEER 1P03 (Engineering Profession and Practice)	2018-2019 Term 1	4.5 (Includes appropriate health and safety considerations)	Section 1	Below Expectations	Actual	Number of Measurements	1	1
ENGINEER 4A03 (Sustainability and Ethics in Engineering)	2018-2019 Term 1	4.5 (Includes appropriate health and safety considerations)	Section 1	Below Expectations	Actual	Number of Measurements	1	5

Rubric Entry Report

The Rubric Entry Report monitors the progress of the rubric input. The report lists all the courses from a selected program. The report will display:

Column Name	Description
Course	- Course name
Status	- Displays the current status of the rubric input <ul style="list-style-type: none"> Options: BLANK, Not Started, WIP, Fully Complete
Measure Required?	<ul style="list-style-type: none"> ✓ If Yes: At least (1) graduate attribute for a course is being measured for the year ✓ If No: The course does not have any graduate attributes measured for the year
Instructor Name	✓ Name of instructor teaching the course
Rubric Updated By	✓ The last user to update the rubric input template for the course
Last Rubric Save Time	✓ The last time the rubric input template was saved

1. Press **View** next to CEAB Attribute Report
2. Select a Program, Term, and Section
3. **Download** and remember the saved location of the report
4. If prompted, **Enable Content** and **Enable Macros**

McMaster University Rubric Entry Status	
Program:	Test Engineering
School Year / Term:	2018-2019 Term 1
Section:	Section 1
Summary	#
# of Courses Not Started	2
# of Courses Started	0
# of Courses Completed	1
Total Number of Courses	3

Courses	Status	Measure Required?	Instructor Name	Rubric Updated By	Last Rubric Save Time
TEST 101 (Test Course for Training 1)	Not Started	Yes	in10 Toby Flenderso	arana2	Wed Jul 3, 2019
TEST 102 (Test Course for Training 2)	Not Started	Yes	nacosx Michael Scot	Andrew Aran	Fri May 10, 2019
TEST 103 (Test Course for Training 3)	Fully Complete	Yes	win10 test	arana2	Mon May 13, 2019
TEST 104 (Test Course for Training 4)		Yes			
TEST 105 (Test Course for Training 5)		Yes			
TEST 106 (Test Course for Training 6)		Yes			
TEST 107 (Test Course for Training 7)		Yes			
TEST 108 (Test Course for Training 8)		Yes			
TEST 109 (Test Course for Training 9)		Yes			
TEST 110 (Test Course for Training 10)		Yes			
TEST2b (TTTT)		No			

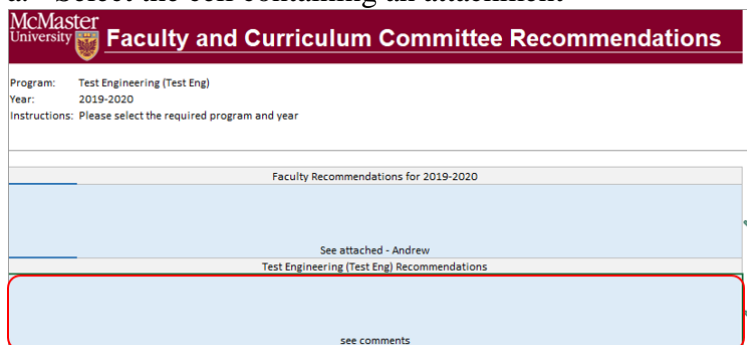
Faculty and Curriculum Committee Recommendations Report

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.

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
4. If prompted, **Enable Content** and **Enable Macros**

To view an attached file:

- a. Select the cell containing an attachment



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

Vena - Comments

Comments

Summary Details

B29 (Recommendations)

April 02, 2019

Andrew Aran

Testing.pdf


04:01 PM

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

Attribute Map Report

Indicates the measure level at the attribute level. If a different indicator level appears, the highest level will appear: I(ntroduced) → D(eveloped) → A(pplied)

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



McMaster University

Attribute Map

Program:

School Year / Term:

Measure Level:

Note:

Test Engineering

2018-2019

I - Introduced D - Developed A - Applied

If different measures at indicator level, the report will display the highest level (A > D > I)


Courses	Graduate Attribute Measured															
	1 Knowledge base				2	3	4	5	6	7	8	9	10	11	12	
	Math	Nat. Sci.	Fund. ES	Spec. ES	PA	Inv.	Des.	Tools	Team	Comm.	Prof.	Impact	Ethics	Econ.	LL	
TEST 101 (Test Course for Training 1)	I				D	A										
TEST 102 (Test Course for Training 2)	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
TEST 103 (Test Course for Training 3)	I				D	A										
TEST 104 (Test Course for Training 4)	I				D	A										
TEST 105 (Test Course for Training 5)	I				D	A										
TEST 106 (Test Course for Training 6)	I				D	A										
TEST 107 (Test Course for Training 7)	I				D	A										
TEST 108 (Test Course for Training 8)	I				D	A										
TEST 109 (Test Course for Training 9)	I				D	A										
TEST 110 (Test Course for Training 10)	I				D	A										
TEST2b (TTT)																

Attribute Map Summary Report

Similar to the Attribute Map Report, instead of showing the actual level (I, D, A), the summary report will only display the “X” to indicate that the specific course is measured at the specific attribute.

1. Press **View** next to Attribute Map Summary Report

2. Select a Program and Term
3. **Download** and remember the saved location of the report
4. If prompted, **Enable Content** and **Enable Macros**



McMaster

University

Measurement Map Summary

Program:

School Year / Term:

Test Engineering

2018-2019

Courses	Graduate Attribute Measured															
	1 Knowledge base				2	3	4	5	6	7	8	9	10	11	12	
	Math	Nat. Sci.	Fund. ES	Spec. ES	PA	Inv.	Des.	Tools	Team	Comm.	Prof.	Impact	Ethics	Econ.	LL	
TEST 101 (Test Course for Training 1)	X				X	X										
TEST 102 (Test Course for Training 2)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TEST 103 (Test Course for Training 3)	X				X	X										
TEST 104 (Test Course for Training 4)	X				X	X										
TEST 105 (Test Course for Training 5)	X				X	X										
TEST 106 (Test Course for Training 6)	X				X	X										
TEST 107 (Test Course for Training 7)	X				X	X										
TEST 108 (Test Course for Training 8)	X				X	X										
TEST 109 (Test Course for Training 9)	X				X	X										
TEST 110 (Test Course for Training 10)	X				X	X										
TEST2b (TTT)																

Indicator Map Report

Indicates the measure level at the indicator level.

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

Indicator Map Report												
Program:		Test Engineering										
Year:		2018-2019										
Note:		If the measure level not defined for any attribute or indicator, the courses will be hidden from this report										
Measure Level:		I - Introduced D - Developed A - Advanced										
Attribute	Indicator	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)	
1 (A knowledge base for engineering)	1.1 (Competence in Mathematics)	I	D	I	I	I	I	I	I	I	I	
	1.2 (Competence in Natural Sciences)		D									
	1.3 (Competence in Engineering Fundamentals)		D									
	1.4 (Competence in Specialized Engineering knowledge)		D									
2 (Problem Analysis)	2.1 (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)	D	D	D	D	D	D	D	D	D	D	
	2.2 (Demonstrates an ability to identify a range of suitable engineering fundamentals (including mathematical techniques) that would be potentially useful for analyzing a		D									
	2.3 (Obtains substantiated conclusions as a result of a problem solution including recognizing the limitations of the		D									
	3.1 (Recognizes and discusses applicable theory knowledge	A	D	A	A	A	A	A	A	A	A	

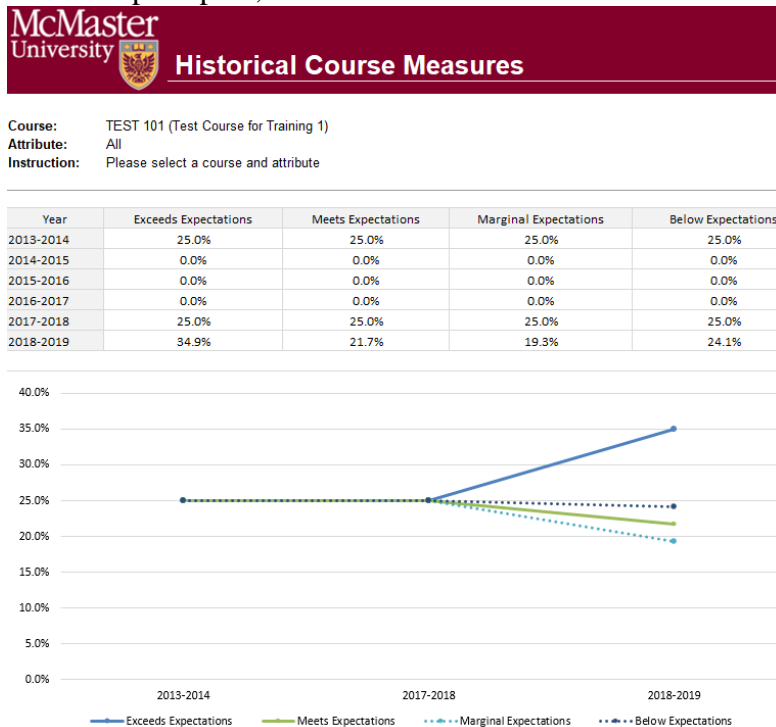
Historical Course Measurement Report

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).

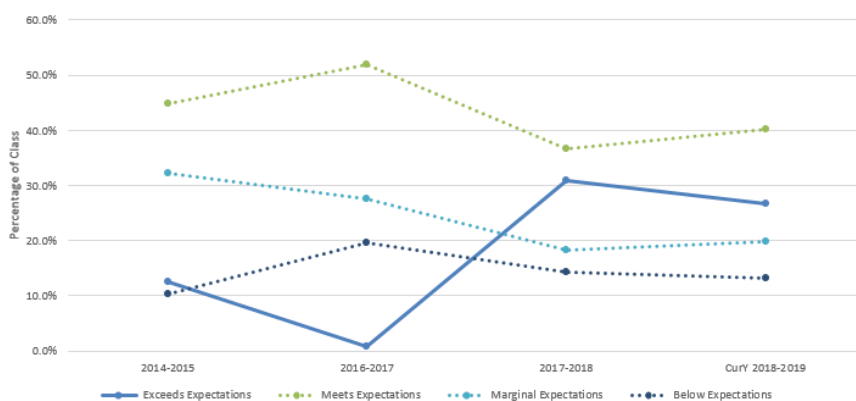
1. Press **View** next to Historical Program Measurement Report
2. **Download** and remember the saved location of the report
3. Select a Program (and Graduate Attribute if necessary)
4. If prompted, **Enable Content** and **Enable Macros**



Historical Program Measures


Program: Engineering I (B.Eng)
Attribute: All
Instruction: Please select a program and attribute

Year	Exceeds Expectations	Meets Expectations	Marginal Expectations	Below Expectations
CurY 2018-2019	26.7%	40.3%	19.8%	13.2%
2013-2014	0.0%	0.0%	0.0%	0.0%
2014-2015	12.6%	44.9%	32.2%	10.3%
2015-2016	0.0%	0.0%	0.0%	0.0%
2016-2017	0.8%	51.9%	27.6%	19.7%
2017-2018	30.9%	36.7%	18.2%	14.2%
2018-2019	0.0%	0.0%	0.0%	0.0%



Course Report

Displays the course outcome, recommendations from the curriculum committee, the continuous improvement plan, and charts generated from the rubric entry. Every course for which rubric data is entered will have a corresponding Course Report.


Course Report

Course: TEST 101 (Test Course for Training I)
Term: 2018-2019 Term 1
Section: Section 1
Instructor: van't Hof-Henderson

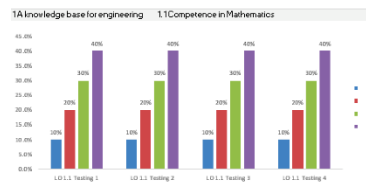
[Summary Chart](#)

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

Field 1	Field 2	Field 3	Field 4	Field 5
Measurement Analysis at the indicator / topic level	Changes in Course content (if applicable)	Changes in Course delivery (if applicable)	Changes in Pre-requisite (if applicable)	Changes in assessment

Attribute	Indicator / Objective	Measuring Method	Below Expectations	Marginal Expectations	Meets
TA knowledge base for	1.1 (Competence in Mathematics)				
	LO 1.1 Testing 1	MMLO 1.1 Testing 1	<50 LO 1.1 Testing 1	50-69 LO 1.1 Testing 1	70-99 LO 1.1 Testing 1
	LO 1.1 Testing 2	MMLO 1.1 Testing 2	<50 LO 1.1 Testing 2	50-69 LO 1.1 Testing 2	70-99 LO 1.1 Testing 2
	LO 1.1 Testing 3	MMLO 1.1 Testing 3	<50 LO 1.1 Testing 3	50-69 LO 1.1 Testing 3	70-99 LO 1.1 Testing 3
	LO 1.1 Testing 4	MMLO 1.1 Testing 4	<50 LO 1.1 Testing 4	50-69 LO 1.1 Testing 4	70-99 LO 1.1 Testing 4

TA knowledge base for engineering 1.1 Competence in Mathematics



Year	Exceeds Expectations	Meets Expectations	Marginal Expectations	Below Expectations
2014-2015	12.6%	44.9%	32.2%	10.3%
2016-2017	0.8%	51.9%	27.6%	19.7%
2017-2018	30.9%	36.7%	18.2%	14.2%
2018-2019	26.7%	40.3%	19.8%	13.2%

Appendix I: Previous Modification Log

Version	Modification date	Author	Comments
1.0	July 4, 2016	Evan Situ	
1.1	August 29, 2016	Evan Situ	Added section 6 and 8 and 1.4
1.2	September 13, 2016	Evan Situ	Added 9. Updating a Global Variable
1.3	September 16, 2016	Evan Situ	Added Section 10 Force Check-In
1.4	September 26, 2016	Evan Situ	Added 11.Update Course Information Input Template
1.5	October 20, 2016	Michelle Zheng	Minor edits
1.6	November 16, 2016	Michelle Zheng	Added title page and Section 7
1.7	November 29, 2016	Michelle Zheng	Updated Section 4
1.8	December 16, 2016	Spencer Smith	Changing template property for concurrent contributors
1.9	January 19, 2017	Spencer Smith	Clarification of submitting rubric and course reports
1.9.1	April 19, 2017	Spencer Smith	Note about protected cells
1.9.2	April 12, 2018	Spencer Smith	Addition on adding superuser permissions
1.9.3	April 18, 2018	Andrew Aran	Updated screenshots for: <ul style="list-style-type: none"> - 4. Add User - 5. Assign User to Process - 7. Faculty Recommendations - 8. Start New Academic Year - 9. Historical Program Measurement Archive - 11. Updating a Global Variable - 13. Update Course Information Input Template
1.9.4	May 3, 2018	Andrew Aran	<ul style="list-style-type: none"> - Updated Global Variable Process - Updated the order of the tasks in the instructions

1.9.5	October 15, 2018	Andrew Aran	<ul style="list-style-type: none"> - Added Contract Renewal Interval to timeline - Added backup and restore interval to timeline
1.9.6	April 29, 2019	Andrew Aran	<ul style="list-style-type: none"> - Added instructions to access CEAB Attribute Report and Drill Down Feature