BY

Evan Situ, Michelle Zheng, Spencer Smith, Andrew Aran
Modification Log

<table>
<thead>
<tr>
<th>Version</th>
<th>Modification Date</th>
<th>Author</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.00</td>
<td>January 9, 2020</td>
<td>Andrew Aran</td>
<td>Initial Draft</td>
</tr>
</tbody>
</table>

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

The Department 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 departmental level. Specifically, each department will annually update the following:
- Course offering
- Mapping between courses and programs
- Curriculum map of a program
- Measurement map
- The department’s continuous improvement plan

The Vena Department Representative will be responsible for completing each task listed above.

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

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

Technical Support: measure@mcmaster.ca
Prerequisites

The departmental templates are currently compatible for the Windows operating system. Enhancements will be implemented in the future to enable macOS compatibility.

Windows System Requirements

<table>
<thead>
<tr>
<th></th>
<th>Recommended</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Latest version of Windows 10 (64-bit)</td>
<td>Windows 7 (32-bit)</td>
</tr>
<tr>
<td>MS Office</td>
<td>Office 2016 or newer</td>
<td>Office 2010</td>
</tr>
<tr>
<td></td>
<td>• Click here for instructions to download Office (via UTS)</td>
<td></td>
</tr>
<tr>
<td>.NET</td>
<td>Latest version of .NET</td>
<td>4.5</td>
</tr>
<tr>
<td>Browser</td>
<td>Latest version of:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Internet Explorer</td>
<td>Internet Explorer 10+</td>
</tr>
<tr>
<td></td>
<td>• Microsoft Edge</td>
<td>Microsoft Edge</td>
</tr>
<tr>
<td></td>
<td>• Mozilla Firefox</td>
<td>Mozilla Firefox 12.0+</td>
</tr>
<tr>
<td></td>
<td>• Google Chrome</td>
<td>Google Chrome</td>
</tr>
<tr>
<td>RAM</td>
<td>16 GB</td>
<td>4 GB</td>
</tr>
<tr>
<td>CPU</td>
<td>2+ Cores</td>
<td>--</td>
</tr>
<tr>
<td>Reference:</td>
<td><a href="https://support.venasolutions.com/hc/en-us/articles/115000622006-Vena-Add-In-System-Requirements">https://support.venasolutions.com/hc/en-us/articles/115000622006-Vena-Add-In-System-Requirements</a></td>
<td></td>
</tr>
</tbody>
</table>

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
The Vena Departmental Templates are 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. Department Representative responsibilities are highlighted in **green**.

<table>
<thead>
<tr>
<th>Date</th>
<th>Task Description</th>
<th>Section</th>
<th>Template</th>
<th>Task Owner</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>• Instructor enters rubric and continuous improvement plan for Term 1</td>
<td>Instructor Guide</td>
<td>Rubric Input Template</td>
<td>Instructor</td>
</tr>
<tr>
<td>January</td>
<td>• Instructor reviews the continuous improvement plan from the previous year for Term 1</td>
<td>Instructor Guide</td>
<td>Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)</td>
<td>Instructor</td>
</tr>
</tbody>
</table>
| January | • Review current rubric entry status  
• Contact instructors who have yet to complete their Vena rubric entry | [Click here](#) | Rubric Entry Report                                                      | 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           | Instructor Guide| Rubric Input Template                                                    | Instructor                          |
| May     | • 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     | • Review current rubric entry status  
• Contact instructors who have yet to complete their Vena rubric entry | [Click here](#) | Rubric Entry Report                                                      | Department                          |
| May     | • Curriculum committees review (this year) course reports and continuous improvement plan reports | [Click here](#) [Click here](#) | Course Report and Rubric Input Template (Instructor Guide)              | Department                          |
| August  | • Archive previous year  
• Start New Academic Year  
• Update global variable and point to Term 1 (after Term 2 data entry is complete) | Admin Guide     | See Administrator’s Guide                                                | Associate Dean’s Office              |
| August  | • Update Measurement Mapping                                                   | [Click here](#) | Measured Indicators Input Template                                       | Department                          |
| August  | • Update Curriculum Mapping  
  ○ Consult with Instructors                                                     | [Click here](#) | Curriculum Mapping Input Template                                       | Department                          |
| August  | • Update Curriculum Recommendations                                            | [Click here](#) | Curriculum Committee Recommendations Input Template                     | Department                          |
| August  | • Review Programs in Vena  
• Notify Associate Dean’s Office if changes are needed                           | [Click here](#) | Login Vena ➔ Modeler ➔ Members ➔ Program                               | Department                          |
| August  | • Add/Update/Un-map courses in the Vena Database  
• **Do not delete Courses**                                                   | [Click here](#) | Login Vena ➔ Modeler ➔ Members ➔ Program                               | Department                          |
| September | • Faculty reviews departmental committee reports from prior year  
• Prepare/review Graduate Attribute Report                                      | Admin Guide     | See Administrator’s Guide                                                | Associate Dean’s Office              |
<table>
<thead>
<tr>
<th>December</th>
<th>Execute Backup and Restore Process</th>
<th>Admin Guide</th>
<th>See Administrator’s Guide</th>
<th>Associate Dean’s Office</th>
</tr>
</thead>
</table>
Throughout the year, the departmental representatives can review reports generated by MEASURE. These reports will be useful for filling out the CEAB questionnaire in accreditation years.

The reports include the following:

- Rubric Entry Report
- Faculty and Curriculum Committee Recommendations Report
- Attribute Map Report
- Attribute Map Summary Report
- Indicator Map Report
- Course Report (for any course)

Using MEASURE, it is also possible to view the historical data through:

- Historical Course Measurement Report
- Historical Program Measurement Report.

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 unmapped, as described in the appropriate section below.
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.
Department Input
Each department needs to update its measurement map (subsection 1 below) and a curriculum map (subsection 2 below). The measurement map for each year identifies what needs to be measured for that year. The curriculum map summarizes where the indicators are offered, and at what level, in each program.

Although it might appear that information is duplicated between the two templates, this is not actually the case. Not all indicators are measured, and not every measured indicator is part of the curriculum map. This second case occurs when a course does not explicitly teach an indicator, but it is measured. This might happen in a capstone course, for instance, where a presentation related indicator is measured, even though this indicator is not explicitly taught in the course.

Measured Indicators Input
1. Under Contributor view, select your department’s Measured Indicators task

2. Select Check Out beside the Measured Indicators Input Template.xlsm

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

4. Open the Excel File
   a. If prompted, press Enable Editing in the Excel spreadsheet
   b. If prompted, press Enable Content to allow Macros

5. Select the Program and Year

***The measured indicators map should only be updated for the current year***
6. Updating the Measurement Map

The measured indicator map is centralized at the program level, and it is using the previous year’s information as the starting point for the current year. Therefore, some of the information may be prepopulated.

a. If an indicator for a course is measured for the year, place an M in the cell intersecting between the indicator and course

<table>
<thead>
<tr>
<th>Indicator</th>
<th>MATLS 4206 (Industrial Projects)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3 [Estimates outcomes, uncertainties and determines appropriate data to collect]</td>
<td>M</td>
</tr>
</tbody>
</table>

b. If an indicator for a course is not measured for the year, delete the M in the cell intersecting between the indicator and course

<table>
<thead>
<tr>
<th>Indicator</th>
<th>MATLS 4206 (Industrial Projects)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3 [Estimates outcomes, uncertainties and determines appropriate data to collect]</td>
<td></td>
</tr>
</tbody>
</table>

Note: When an M is placed between an indicator and course, the indicator will be available in the Rubric Input Template and enable users to enter learning outcomes (rows) for that indicator. To learn more about the Rubric Input Template, please review the Instructor Guide.

Example: Measured Indicators Template updated to display the indicator in the Rubric Input Template

<table>
<thead>
<tr>
<th>Measured Indicators Template</th>
<th>Rubric Input Template</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST 301 (test course for Training 1)</td>
<td></td>
</tr>
</tbody>
</table>

7. When the indicators have been updated, click **Save Data** under the **Vena Tab**
8. Closing and Checking in the Template
   a. When closing the template, you will be prompted to Check-in
   b. Select Yes

   ![Check-in Dialogue]

Curriculum Mapping Input
The curriculum map is a summary of how our program maps to the CEAB attributes (and our indicators).

1. Under Contributor view, select your department’s Curriculum Mapping task

![Curriculum Mapping Task]

2. Select Check Out beside the Curriculum Mapping Input Template.xlsx

![Check Out Dialogue]

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

4. Open the Excel File
   a. If prompted, press Enable Editing in the Excel spreadsheet

![Enable Editing Dialogue]

   b. If prompted, press Enable Content to allow Macros

![Enable Content Dialogue]

5. Select the Program and Year

***The curriculum map should only be updated for the current year***
6. Updating the Curriculum Map

The curriculum mapping is centralized at the program level, and it is using the previous year’s information as the starting point for the current year, therefore some of the information may be prepopulated.

The Department’s Curriculum Committee determines the curriculum level and ensure they accurately reflect the CEAB attributes.

Each cell corresponding to an indicator and course will contain a dropdown menu.

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Introduced</td>
<td>Indicator is mentioned, but not established</td>
</tr>
<tr>
<td>D</td>
<td>Developed</td>
<td>Indicator is covered in more detail, and reinforced by test questions or assignments</td>
</tr>
<tr>
<td>A</td>
<td>Applied</td>
<td>Indicator is covered in greater detail, and reinforced by a more sophisticated or involved project</td>
</tr>
</tbody>
</table>

c. If an indicator for a course requires a curriculum level, select a cell, press the **dropdown** button, and select the curriculum level.

d. If a curriculum level is not required for the year, select the cell, and **delete** the value intersecting between the indicator and course.
7. When the indicators have been updated, click **Save Data** under the **Vena Tab**

8. Closing and Checking in the Template
   e. When closing the template, you will be prompted to **Check-in**
   f. Select **Yes**

---

**Curriculum Committee Recommendations Input**

At the end of the academic year, the Curriculum Committee will provide recommendations for the upcoming year regarding their programs and courses.

Example: At the end of 2018-2019 year, users will enter recommendations in 2018-2019 and to be reviewed during the 2019-2020 year.

The recommendations can be entered into the Curriculum Committee Recommendations Template.

1. Under Contributor view, select your department’s **Curriculum Committee Recommendations** task

2. Select **Check Out** beside the **Curriculum Committee Recommendations Input Template.xlsx**
3. A pop-up will appear to save the template. Click **save** and remember the saved location of the template.

4. Open the Excel File
   a. If prompted, press **Enable Editing** in the Excel spreadsheet
   
   ![Enable Editing]

   b. If prompted, press **Enable Content** to allow Macros
   
   ![Enable Content]

5. Select the Program and Year

6. Recommendations Input
   a. Users can enter their program and course recommendations
   OR
   b. If they prefer to attach a file, they can do so by:
      i. Select a cell
      ii. Click **Comments**
      iii. In the **Comments** section, click **Details** Tab
      iv. Click the **Add Comment** button
      v. Click the **paper clip** and attach your file
      vi. Click **Upload** when asked to upload the file as a comment
      vii. Include text in the selected cell such as ‘**See attached file**’ to notify users the template contains attachments
7. When the recommendations have been updated, click **Save Data** under the **Vena Tab**

8. Closing and Checking in the Template
   a. When closing the template, you will be prompted to **Check-in**
   b. Select **Yes**
Vena Program Review

Prior to the start of the academic year, Department Representatives will need to review their programs in Vena to ensure the courses are correctly mapped.

If you do not see the Modeler tab, contact MEASURE Support (measure@mcmaster.ca).

1. Under the Modeler View, select Data Modeler → Members → Programs

2. Expand Program

3. Expand the program that will be reviewed

4. Expand each level to review the courses

5. If there are any courses that need to be added or unmapped, contact measure@mcmaster.ca
Updating Courses and Program Maps
Please consult with your department and MEASURE Support (measure@mcmaster.ca) before making any changes to the course or program in Vena.

Adding a New Course
New courses are added to MEASURE as they are offered, but courses that are no longer offered should not be deleted. They can be unmapped from the program map, but if the course is actually deleted, all of the associated historical data will be lost.

If you do not see the Modeler tab, contact MEASURE Support (measure@mcmaster.ca).

1. Under the Modeler View, select Data Modeler → Members → Programs

2. Expand the Program List → Expand the program where the new course will be added → Expand the Level → Right-click on the level → Select Add Child

3. Enter the Course Code and Description
   a. Once a course has been added, remember to update the Measured Indicators Input Template and Curriculum Committee Recommendations Template
Sharing a Course

A course can be shared if the course already exists in Vena and needs to be added to another program.

1. Under the Modeler View, select **Data Modeler → Members → Programs**

2. Select the course to be shared:
   a. Expand the **Program List** → Expand the program → Expand the **Level** → Right-click on the course → Select **Share**

3. Next, select the destination:
   a. Expand the **Program List** → Expand the program → Expand the **Level** → Right-click on the level → Select **Paste**
Un-mapping a Course

*Please contact support (measure@mcmaster.ca) prior to un-mapping a course*

Un-mapping a course is essential when the course is no longer offered for a program or all programs. There are (2) methods to un-map a course.

1. Un-mapping a course from One program. 2. Un-mapping a course from All programs

**Un-mapping a Course from One Program**

If the course is removed from one program, but is still offered in others, the course can be deleted from the selected program. Even though the course is deleted from the selected program, the rubric data and data entry will remain available for the other programs containing the course.

1. Pause the Process
   a. Under the Manager View, select **Accreditation 2.0**, press the **Pause** button

2. Under the Modeler View, select **Data Modeler → Members → Programs**

---

**Manager**

- **Contributor**
- **Modeler**
- **Admin**

**Data Modeler**

- **Scripts**
- **Integration**
- **History**

**Members**

- **Attributes**
- **Versioning**
- **ETL**

**Dimensions**

- **Program**
3. Expand the **Program List** → Expand the program → Expand the **Level** → Right-click on the course → Select **Delete**

4. Another window will appear to confirm deletion. Press **Delete**.

5. Unpausing the Process
   a. Under the Manager View, select **Accreditation 2.0**, press the **Play** button

**Un-mapping a Course from All Programs**

If the course is no longer offered to all programs, the course can be un-mapped and moved to the “Unmapped” folder. When the course is moved to the “Unmapped” folder, historical rubric data will remain available, but rubric data can no longer be submitted or edited.

1. Pause the Process
   a. Under the Manager View, select **Accreditation 2.0**, press the **Pause** button

2. Under the Modeler View, select **Data Modeler** → **Members** → **Programs**
3. Move the first occurrence of the course to the “Unmapped” folder
   a. Expand the Program List → Expand the program → Expand the Level → Right-click on the course → Select Cut
   b. Right-click on the Unmapped folder and select ‘Paste’
4. Delete the remaining instances of the course from each program mapping
   Since the first instance of the course has been unmapped, the duplicate courses can now be deleted.
   a. Expand the Program List → Expand the program → Expand the Level →
      Right-click on the course → Select Delete

5. Another window will appear to confirm deletion. Press Delete.

6. Repeat steps 4 and 5 until all duplicate courses have been deleted.
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
2. Select Drill Down
a. For **Windows users**, select Vena Tab  Drill  Drill Down

![Image of Vena Tab and Drill Down options]

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

![Image of Drill Transactions and Drill Saves]

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

   ![Excel worksheet with data]

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:

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course</td>
<td>- Course name</td>
</tr>
<tr>
<td>Status</td>
<td>- Displays the current status of the rubric input</td>
</tr>
<tr>
<td></td>
<td>o Options: BLANK, Not Started, WIP, Fully Complete</td>
</tr>
<tr>
<td>Measure Required?</td>
<td>- <strong>If Yes</strong>: At least (1) graduate attribute for a course is being measured for the year</td>
</tr>
<tr>
<td></td>
<td>- <strong>If No</strong>: The course does not have any graduate attributes measured for the year</td>
</tr>
<tr>
<td>Instructor Name</td>
<td>- Name of instructor teaching the course</td>
</tr>
</tbody>
</table>
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

Faculty and Curriculum Committee Recommendations Report.xlsxm
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

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**
### 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**

### 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

---

**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

---

**McMaster University**

**McMaster University – Department Guide**

**Version 3.00**

**Page 34 of 41**
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

<table>
<thead>
<tr>
<th>Year</th>
<th>Exceeds Expectations</th>
<th>Meets Expectations</th>
<th>Marginal Expectations</th>
<th>Below Expectations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curr 2018-19</td>
<td>26.7%</td>
<td>40.3%</td>
<td>16.8%</td>
<td>16.2%</td>
</tr>
<tr>
<td>2013-2014</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2014-2015</td>
<td>12.6%</td>
<td>44.9%</td>
<td>32.2%</td>
<td>10.3%</td>
</tr>
<tr>
<td>2015-2016</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>2016-2017</td>
<td>0.8%</td>
<td>51.9%</td>
<td>27.6%</td>
<td>10.7%</td>
</tr>
<tr>
<td>2017-2018</td>
<td>30.3%</td>
<td>36.7%</td>
<td>18.2%</td>
<td>4.2%</td>
</tr>
<tr>
<td>2018-2019</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
</tr>
</tbody>
</table>

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.

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**

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

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

8. Choose a location to save the files

9. Click **OK**

10. The Cascade feature will take approximately 5-10 minutes to complete
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**

   ![Rubric Input Template - Windows.xlsm](image)

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

   g. Open the Excel File
      - If prompted, press **Enable Editing** in the Excel spreadsheet

      ![Enable Editing](image)

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

      ![Enable Content](image)
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**

![Unhide Sheet](image)


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

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course</td>
<td>Term</td>
<td>Section</td>
<td>Lookup</td>
</tr>
<tr>
<td>2</td>
<td>CHEM 1E03</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM 1E03Term 1Section 1</td>
</tr>
<tr>
<td>3</td>
<td>CHEM ENG 2D04</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM ENG 2D04Term 1Section 1</td>
</tr>
<tr>
<td>4</td>
<td>CHEM ENG 2G03</td>
<td>Term 1</td>
<td>Section 1</td>
<td>CHEM ENG 2G03Term 1Section 1</td>
</tr>
</tbody>
</table>

f. Copy the Excel formula in Column D down

g. Hide the **CourseList** sheet

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

![Save Template](image)

i. Close the **Rubric Input Template**

7. Repeat steps 1-5 for **macOS Rubric Input Template**
# Appendix I: Previous Modification Log

<table>
<thead>
<tr>
<th>Version</th>
<th>Modification date</th>
<th>Author</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>July 5, 2016</td>
<td>Evan Situ</td>
<td></td>
</tr>
<tr>
<td>1.1</td>
<td>August 28, 2016</td>
<td>Evan Situ</td>
<td>Split the instructor document</td>
</tr>
<tr>
<td>1.2</td>
<td>August 28, 2016</td>
<td>Evan Situ</td>
<td>Added Section 6 and 4.1 and 1.4</td>
</tr>
<tr>
<td>1.3</td>
<td>October 19, 2016</td>
<td>Michelle Zheng</td>
<td>Edited Section 6</td>
</tr>
<tr>
<td>1.4</td>
<td>October 28, 2016</td>
<td>Evan Situ</td>
<td>Added New Section 5: Add New Course</td>
</tr>
<tr>
<td>1.5</td>
<td>November 8, 2016</td>
<td>Michelle Zheng</td>
<td>Added introduction, moved sections around, general modifications based on</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Spencer’s notes</td>
</tr>
<tr>
<td>1.6</td>
<td>November 15, 2016</td>
<td>Spencer Smith</td>
<td>Additions to introduction, clarification of timeline, editing/rearranging</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>of sections, added title page</td>
</tr>
<tr>
<td>1.7</td>
<td>November 21, 2016</td>
<td>Evan Situ</td>
<td>Added section Updating Valid Course Information</td>
</tr>
<tr>
<td>1.8</td>
<td>November 21, 2016</td>
<td>Evan Situ</td>
<td>Removed Other Resource</td>
</tr>
<tr>
<td>1.9</td>
<td>November 29, 2016</td>
<td>Michelle Zheng</td>
<td>Added Section 6.3</td>
</tr>
<tr>
<td>2.0</td>
<td>December 16, 2016</td>
<td>Spencer Smith</td>
<td>Update Section on Validation Rules, Added Rubric Entry Report</td>
</tr>
<tr>
<td>2.1</td>
<td>January 2, 2016</td>
<td>Spencer Smith</td>
<td>Move Curriculum Committee Recommendations Report to Instructor Guide</td>
</tr>
<tr>
<td>2.2</td>
<td>April 29, 2019</td>
<td>Andrew Aran</td>
<td>Added instructions to access CEAB Attribute Report and Drill Down Feature</td>
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</tbody>
</table>