macOS Instructor Guide for MEASURE
Faculty of Engineering, McMaster University

January 9, 2020

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

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Modification Log

<table>
<thead>
<tr>
<th>Version</th>
<th>Modification Date</th>
<th>Author</th>
<th>Comments</th>
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</thead>
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<tr>
<td>3.00</td>
<td>January 9, 2020</td>
<td>Andrew Aran</td>
<td>• Updated to reflect MEASURE 3.0</td>
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</tbody>
</table>

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

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

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

MEASURE’s purpose is to:
- Facilitate the continual improvement of the curriculum of the programs offered by the Faculty of Engineering
- Assist with generating accreditation reports for the Canadian Engineering Accreditation Board (CEAB)

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

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

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

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

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

Technical Support: measure@mcmaster.ca
Prerequisites

macOS

System Requirements

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

About the Vena Contributor Connector

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

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

Installing Vena for Mac Users

1. Open Microsoft Excel for Mac

2. Select the **Insert** tab

3. Select **Get Add-ins**

4. Search for “Vena Connector”
5. Press Add

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

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

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

Steps to signing out:
1. Open Excel for Mac
2. Click on your initials then press sign out
3. Confirm sign out
Enabling Trust Access to the VBA Project Object Model

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

1. Open Excel
2. Select a Blank Workbook
3. Select Excel ➔ Preferences
4. Under Sharing and Privacy, select Security
5. Ensure that Disable all macros with notification is selected
6. Check the box next to Trust access to the VBA project object model
7. Close all instances of Excel for the settings to take effect.

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

Instructions to Access a Virtual Machine:
https://www.eng.mcmaster.ca/sites/default/files/vminstruct.pdf

Questions/Comments/Technical Support:
measure@mcmaster.ca
### Annual Timeline

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

<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>Windows</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>MacOS</td>
<td>Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)</td>
<td>Instructor</td>
</tr>
<tr>
<td>January</td>
<td>• Review current rubric entry status</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
<tr>
<td>January</td>
<td>• Contact users who have yet to complete their Vena rubric entry</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
<tr>
<td>April</td>
<td>• Update global variable and point to Term 2 (after Term 1 data entry is complete)</td>
<td>Admin Guide</td>
<td>See Administrator’s Guide</td>
<td>Associate Dean’s Office</td>
</tr>
<tr>
<td>May</td>
<td>• Instructor enters rubric and continuous improvement plan for Term 2</td>
<td>Windows</td>
<td>Rubric Input Template</td>
<td>Instructor</td>
</tr>
<tr>
<td>May</td>
<td>• Instructor reviews continuous improvement plan from the previous year for Term 2</td>
<td>MacOS</td>
<td>Rubric Input Template and Curriculum Committee Recommendations Report (Prev. Year)</td>
<td>Instructor</td>
</tr>
<tr>
<td>May</td>
<td>• Review current rubric entry status</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
<tr>
<td>May</td>
<td>• Contact instructors who have yet to complete their Vena rubric entry</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
<tr>
<td>May</td>
<td>• Curriculum committees review (this year) course reports and continuous improvement plan reports</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
<tr>
<td>August</td>
<td>• Archive previous year</td>
<td>Admin Guide</td>
<td>See Administrator’s Guide</td>
<td>Associate Dean’s Office</td>
</tr>
<tr>
<td>August</td>
<td>• Start New Academic Year</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>• Update global variable and point to Term 1 (after Term 2 data entry is complete)</td>
<td>Admin Guide</td>
<td>See Administrator’s Guide</td>
<td>Associate Dean’s Office</td>
</tr>
<tr>
<td>August</td>
<td>• Update Measurement Mapping</td>
<td>Department Guide</td>
<td>See Department Guide</td>
<td>Department</td>
</tr>
</tbody>
</table>
| August   | • Update Curriculum Mapping  
  ○ Consult with Instructors                                                                                                                                                                      | Department Guide                 | See Department Guide                                                                                | Department                  |
| August   | • Update Curriculum Recommendations                                                                                                                                                                          | Department Guide                 | See Department Guide                                                                                | Department                  |
| August   | • Review Programs in Vena  
  • Notify Associate Dean’s Office if changes are needed                                                                                                                                             | Department Guide                 | See Department Guide                                                                                | Department                  |
| August   | • Add/Update/Un-map courses in the Vena Database  
  • Do not delete Courses                                                                                                                                                                               | Department Guide                 | See Department Guide                                                                                | Department                  |
<p>| September| • Faculty reviews departmental continuous improvement plan report from previous year                                                                                                                          | Admin Guide                      | See Administrator’s Guide                                                                           | Associate Dean’s Office     |</p>
<table>
<thead>
<tr>
<th>Month</th>
<th>Task</th>
<th>Resource</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>December</td>
<td>Prepare/review Graduate Attribute Report</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Execute Backup and Restore Process</td>
<td>Admin Guide</td>
<td>See Administrator’s Guide</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Associate Dean’s Office</td>
</tr>
</tbody>
</table>
Accessing Vena
1. Open a web browser
2. Visit https://vena.io
3. In the email textbox, enter your McMaster email address (i.e. macid@mcmaster.ca)
4. Your password has been previously communicated. If you do not remember, or do not have an account, please contact Measure Support (measure@mcmcaster.ca)

Changing Vena Password
Your password can be changed by clicking the user’s name in the upper right corner of the screen and then selecting “Change Password”. You will be prompted to enter the current and new password.
Instructor Input
For each course being measured, the continuous improvement plan and rubric data will need to be entered and saved. They will need to be entered in a single spreadsheet called the Rubric Input Template.

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

***You do not need to worry about using the Submit button***

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

<table>
<thead>
<tr>
<th>Task</th>
<th>macOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The device meets the system requirements</td>
<td>Click here</td>
</tr>
<tr>
<td>Microsoft Excel 2010 or later is installed</td>
<td>Click here</td>
</tr>
<tr>
<td>Vena Add-In is installed</td>
<td>Click here</td>
</tr>
<tr>
<td>Enabling Trust Access to Vena</td>
<td>Click here</td>
</tr>
</tbody>
</table>

macOS Guide
This section of the guide is intended for macOS users.

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

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

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

4. **Press Download (Check Out)**

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

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

**Updating Rubric Input Template**
If an instructor has rubric information from the previous year, the same rubric information will be prepopulated as a starting point for the current year.
If this is the first time a course is being measured, the user may need to insert new learning outcomes (rows) to enter the rubric data.

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

1. **Instructor Name**
   a. Enter the instructor’s name for the course

2. **Rubric Entry Status**
   a. Select a status from the dropdown menu
      i. Not Started – User has not entered rubric data
      ii. WIP – User has entered rubric data, but not complete
      iii. Fully Complete – User has completed entering rubric data

<table>
<thead>
<tr>
<th>Course:</th>
<th>TEST 101 (Test Course for Training 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term:</td>
<td>2018-2019 Term 1</td>
</tr>
<tr>
<td>Section:</td>
<td>Section 1</td>
</tr>
<tr>
<td>Instructor Name:</td>
<td>John Smith</td>
</tr>
<tr>
<td>Rubric Entry Status:</td>
<td>Fully Complete</td>
</tr>
<tr>
<td>Last User</td>
<td>Admin User</td>
</tr>
</tbody>
</table>

3. **Updated By:**
   a. Enter your name

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

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

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

   ![Image of indicator and learning outcome]

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

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

   b. **Deleting Topics (rows)**
      
      i. Select the **Learning Outcome** you wish to remove
      
      ii. Click the trash can button under the Line Item Details section
          
          1. The selected Learning Outcome row will be removed

   c. **Missing Indicators**
      
      i. If an indicator is missing or is not required, please contact your department representative or [MEASURE Support](#) to update the Measure Indicators Template

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

7. **Expectations**
   
   **Description:** Describes a given expectation that applies to a learning outcome

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

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

8. **Used (1/0)**
   
   The column “Used (1/0)” is set to 1 if the data in a particular row is used for the calculation of the indicator.
If users wish to record the information for future reference, but do not intend for it to be averaged into the indicator, enter a 0. The default value is 0.

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

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

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

10. **Attaching Sample Files**
Reminder: For privacy and security reasons, remove any information that may identify a student

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

11. **Saving Data**
   a. Click the **Save** button
   b. If successful, **Success** will temporarily appear over the save button

12. **Closing and Checking in the Template**
After saving the changes and closing the Excel template, you will need to go back to the web browser and check the file back in.
   a. **Open** your web browser
   b. Visit **Vena** ([https://vena.io](https://vena.io))
   c. Under Contributor view, click on **Task Rubric Input & Course Report (by Instructor) - New**
   d. Press the **Check-In** button next to the template currently checked out
Viewing Summary Chart

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

After entering/updating rubric data:

1. Click the button
2. On the template, press the button

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

Viewing Detailed Chart

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

1. Click the button
2. On the template, press the button
3. Select the Detailed View worksheet.
Tip: If the charts do not reflect the data, click Vena’s Save button, close and check-in the template, then check-out and download the template.

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

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

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

In particular, instructors will want to view:
- CEAB Attribute Report
- Faculty and Curriculum Committee Recommendation’s Report
- Historical Course Measurement Report
- Historical Program Measurement Report
- Measurement Map Report
Accessing the Reports

1. Ensure the Contributor tab is selected

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

3. Click **Reports**
CEAB Attribute Report

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

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

1. Press View next to CEAB Attribute Report
2. Select a Course/Program, Term, and Section
3. Download and remember the saved location of the report

Vena’s Drill Down Feature

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

1. Select a cell intersecting an Attribute and Expectation
2. Select Drill Down
   a. For Windows users, select Vena Tab → Drill → Drill Down
b. For macOS users, select 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

   b. Faculty and Curriculum Committee Recommendation Report

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

   1. Press View next to Faculty and Curriculum Committee Recommendations Report

   2. Select a Course/Program and Year

   3. Download and remember the saved location of the report

   To view an attached file:

   a. Select a cell containing an attachment
b. Click on Comments under Vena Tab  
c. On the right-hand side, select the attached file

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

**Historical Course Measurement Report**  
Shows the historical trend for each course at different levels (indicator, attribute and all).

1. Press View next to Historical Course Measurement Report  
2. Download and remember the saved location of the report  
3. Select a Course (and Graduate Attribute if necessary)  
4. If prompted, Enable Content and Enable Macros
Historical Program Measurement Report
Shows the historical trend for each program at different levels (indicator, attribute and all).

1. Press View next to Historical Program Measurement Report
2. Download and remember the saved location of the report
3. Select a Program (and Graduate Attribute if necessary)
4. If prompted, Enable Content and Enable Macros
Measurement Map Report
Indicates attributes the instructors will need to measure for a given year.

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Program Name</th>
<th>Course Details</th>
</tr>
</thead>
</table>
| Course Report.        | TEST 101     | Test Course for Training 1 |}
| Course Report.        | TEST 102     | Test Course for Training 2 |}
| Course Report.        | TEST 103     | Test Course for Training 3 |}
| Course Report.        | TEST 104     | Test Course for Training 4 |}
| Course Report.        | TEST 105     | Test Course for Training 5 |}
| Course Report.        | TEST 106     | Test Course for Training 6 |}
| Course Report.        | TEST 107     | Test Course for Training 7 |}
| Course Report.        | TEST 108     | Test Course for Training 8 |}
| Course Report.        | TEST 109     | Test Course for Training 9 |}
| Course Report.        | TEST 110     | Test Course for Training 10 |}
# Appendix I: Report Overview

<table>
<thead>
<tr>
<th>Report Overview</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attribute Map Report</td>
<td>Displays all the courses for a program and the highest measure level for each Graduate Attribute</td>
</tr>
<tr>
<td>Attribute Map Summary Report</td>
<td>Similar to the Attribute Map Report, instead of displaying the level (A, D, I), the summary report displays an “X” to indicate that the course is measured for a specific attribute</td>
</tr>
<tr>
<td>CEAB Attribute Report</td>
<td>Displays a bar chart of the rubric data entered for each graduate attribute in a given program/course</td>
</tr>
<tr>
<td>Course Report</td>
<td>Displays the rubric data entered from the Rubric Input Template in a bar chart. Also contains (if any) continuous improvement plans</td>
</tr>
<tr>
<td>Curriculum Committee Recommendations Report</td>
<td>Displays the committee recommendations for the program and its courses</td>
</tr>
<tr>
<td>Historical Course Measurement Report</td>
<td>Displays the course’s year to year trend of the measured expectations</td>
</tr>
<tr>
<td>Historical Program Measurement Report</td>
<td>Displays the program’s year to year trend of the measured expectations</td>
</tr>
<tr>
<td>Indicator Map Report</td>
<td>Displays all the Graduate Attribute Indicators and the lowest measure level for each course</td>
</tr>
<tr>
<td>Measurement Map Report</td>
<td>Assigns an “M” for each course measured for the year</td>
</tr>
<tr>
<td>Rubric Entry Report</td>
<td>Displays the rubric entry status, indicates if a course is measured, the instructor's name, the last user to save rubric data, and when it was last saved</td>
</tr>
</tbody>
</table>
# Appendix II: 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 added section 3.1 and 1.4</td>
</tr>
<tr>
<td>1.2</td>
<td>November 21, 2016</td>
<td>Evan Situ</td>
<td>Removed Other Resource</td>
</tr>
<tr>
<td>1.3</td>
<td>December 20, 2016</td>
<td>Michelle Zheng</td>
<td>Updated sections 2-6</td>
</tr>
<tr>
<td>1.4</td>
<td>January 2, 2017</td>
<td>Spencer Smith</td>
<td>Updated timeline, instructor input, reports, submit button</td>
</tr>
<tr>
<td>1.5</td>
<td>January 9, 2017</td>
<td>Spencer Smith</td>
<td>Addition of password change instructions</td>
</tr>
<tr>
<td>1.6</td>
<td>January 19, 2017</td>
<td>Spencer Smith</td>
<td>Removal of request to use the Submit button</td>
</tr>
<tr>
<td>1.7</td>
<td>January 31, 2017</td>
<td>Spencer Smith</td>
<td>Explicit statement that each indicator has to have at least one learning outcome</td>
</tr>
<tr>
<td>1.8</td>
<td>April 19, 2017</td>
<td>Spencer Smith</td>
<td>Explanation of columns in the Rubric Input template</td>
</tr>
</tbody>
</table>