

# **Program Assessment 101**

Academic Programs and Services

# Outline of Presentation

1. Brief Information of CQIP
2. Program Assessment Training
3. Program Assessment Cycle
4. Faculty Qualification

# Summary of UCM's Quality Improvement Program (CQIP)

**Program student learning outcomes (SLOs) are established, measurable and externally validated.**

- The program faculty use appropriate external groups that possess knowledge of the program and program needs to evaluate SLOs.
  - In the absence of an advisory council, programs may consider program SLOs established by an appropriate professional disciplinary association.
- The program faculty regularly re-validate program SLOs, to help identify changes in student learning needs.
- The program faculty document how the feedback from the validation process is used to redefine and improve program SLOs.

# Summary of UCM's Quality Improvement Program (CQIP)

- **ACTION:** Programs need to annually submit meeting minutes from their Advisory Council meeting(s) and/or Faculty meeting(s) that document and describe how program SLOs were validated and changed. These can be entered in the Tk20 Document room. The program can either enter all minutes with the assessment discussion highlighted. Programs may choose to copy and paste the assessment discussion portion of their minutes. If this is done, please ensure dates are included.

# Summary of UCM's Quality Improvement Program (CQIP)

**The program clearly communicates the program SLOs to students and faculty** (especially new faculty) including the manner by which outcomes are integrated into the degree program's curriculum and assessed.

- The program faculty clearly communicates the program SLOs to students in every course through a variety of means including university catalogs, web links, and departmentally approved syllabi.

# Summary of UCM's Quality Improvement Program (CQIP)

**ACTION:** Programs need to annually submit their model syllabi that communicate program SLOs and confirm that program SLOs are communicated in all course syllabi. Programs need to annually submit materials or web links that demonstrate other means of communicating program SLOs (e.g. student handbook, department website, agendas of student orientation activities, etc). This can be submitted to the Document room in Tk20.

# Summary of UCM's Quality Improvement Program (CQIP)

The program has an up-to-date curriculum map detailing where program SLOs are introduced, practiced/reinforced, and assessed/advanced and communicates this to students.

The program faculty regularly analyze the major program offerings and develop or modify a curricular map that identifies the courses in which specific program SLOs are introduced, practiced and assessed and communicates this information to students.

# Summary of UCM's Quality Improvement Program (CQIP)

**ACTION:** Programs need to annually confirm that they have updated their program curriculum map in Tk20 and describe or document how this is communicated to students. The curriculum map will be part of the program's assessment plan in Tk20. Training will be provided on curriculum mapping.



# Summary of UCM's Quality Improvement Program (CQIP)

The program regularly performs formative evaluations of student artifacts that indicate students' progress toward satisfactory program completion.

Formative assessment provide students information about how they are doing **before** they reach the end of their program. A good place to think about formative program assessment is at a mid-point in the program.

# Summary of UCM's Quality Improvement Program (CQIP)

- **ACTION:** Programs need to annually document that selected program SLOs are assessed by a formative assessment(s)
  - How are SLOs assessed
  - In which courses are SLOs assessed
  - How are students doing on the assessment
  - Are you making changes to: curriculum, pedagogy, assessment methods, etc.
  - This information should be entered into the Tk20 system as part of Measures, Results, and Actions

# Summary of Central's Quality Improvement Program (CQIP)

The program regularly performs summative evaluations of student artifacts that demonstrate students' mastery of program outcomes.

Summative assessments provide students information about how they are doing when they reach the end of their program

# Summary of Central's Quality Improvement Program (CQIP)

**ACTION:** Programs need to annually document that selected program SLOs (ideally all outcomes) are assessed by a summative assessment(s)

How are SLOs assessed

In which courses are SLOs assessed

How are students doing on the assessment

Are you making changes to: curriculum, pedagogy, assessment methods, etc.

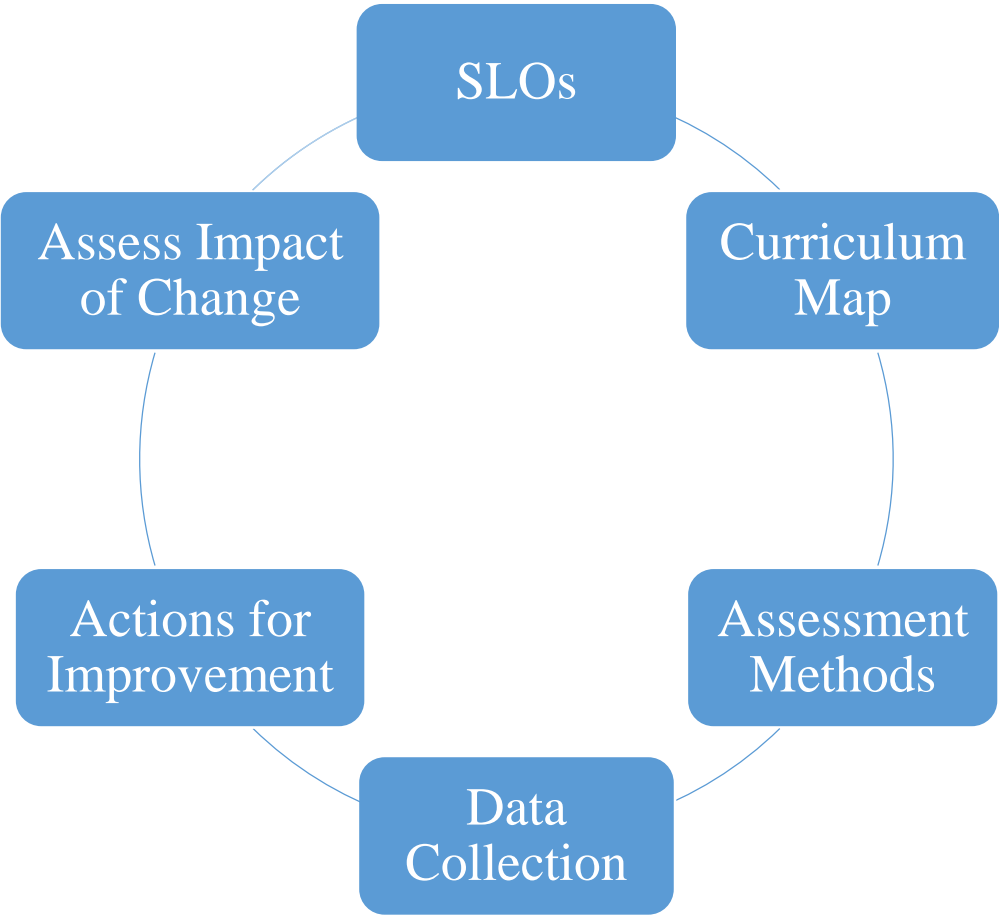
This information should be entered into the Tk20 system as part of Measures, Results, and Actions

# **Why We Assess**

**Improve student learning**

**External**

# Assessment Cycle



# Levels of Assessment

Institutional Assessment (Gen Ed Assessment)

Program Assessment (CQIP in Tk20)

Course Assessment

# What Do I Do in Tk20 for Program Assessment

Step 1: Student Learning Outcomes (SLOs)

Step 2: Curriculum Map

Step 3: Assessment Methods – Measures and Benchmarks

Step 4: Data Analysis – Results

Step 5: Actions for Improvement

Step 6: Impact of Actions



# Step 1: SLOs

- **SLOs** are concrete actions the student should be able to perform as a result of participation the program.
- **SLO formula: Action Verb + specialized knowledge, skills and dispositions**
- **Look at the examples and decide the levels of learning**
  - Student will be able to **describe** the problem solving process.
  - Students will **solve** research problems through the application of scientific methods.
  - Students will **analyze** the strengths and weaknesses of empirical research and theories in kinesiology.

# Tips for SLOs

- Keep the SLO simple, should be a broad, single and measurable statement.
- Words such as understand, know, or appreciate should be avoided because these are not measurable.
- 3-5 general outcomes for each program – pick most important (exception will be specialized accreditation requirements)

# Step 1: Suggested Reviewing SLOs

- Use DQP to update your SLOs and document in meeting minutes.
  - 2015-2016: 15 program revised SLOs.
- Use reference of actions verbs from handouts.

# Step 1: SLOs

Questions?

# Step 2: Curriculum Map

- The Curriculum Map: A matrix that represents how courses are aligned with program student learning outcomes.
- The purpose of a curriculum map is to assure that all of the SLOs are being addressed somewhere in the required coursework for that program.
- Each program SLOs should have courses to address at **Introduced (I), Reinforced (R)/Practiced, and Assessed (A)**.
  - **Introduced:** Provide learning opportunity of new knowledge
  - **Reinforced:** Practice the knowledge from introduced level
  - **Assessed:** Formally assess the SLO and gather data for entry into Tk20

# Step 2: Curriculum Map

Below are some possible versions of I,R and A within a program SLO.

Program course	Program SLO1	Program SLO2	Program SLO3
Course 1000	I	I, R	I
Course 2000	I	I, R	R
Course 3000	R	A	R
Course 4000	A	A	A

# Step 2: Curriculum Map

Find the mistakes in the sample curriculum map

Program course	Program SLO1	Program SLO2	Program SLO3	Program SLO 4
Course 1	A		R	
Course 2	I		I	
Course 3	R	R		
Course 4				
Course 5		A	A	

# **Step 2: Curriculum Map**

**Questions?**



## Step 2: Practice

Use the sample grid and put your program courses into the appropriate outcomes and level of mastery: I (Introduced), R(Reinforced) or A(Assessed) (5 minutes)

Work in your group and share your curriculum map with your peers and discuss. (10 minutes)

# Step 3: Assessment Methods Measures & Benchmarks

- Each program outcome needs to conduct both formative and summative assessment.
- Programs may use a combination of direct and indirect measures to provide a complete picture of student performance.
  - **Direct measures** of assessment indicate the attainment of student learning, knowledge, or skills by **directly observing students' demonstration of knowledge, skills, and learning.**
  - **Indirect measures** of assessment focus on **student perceptions of learning** and often involve surveys, interviews, or focus groups to ask students to self-report or reflect on their learning rather than to demonstrate it.

# Step 3: Practice

Have a look at the handout and decide the sample methods good for formative or summative, and direct and indirect assessment (5 minutes)

# Helpful hints for Selecting Assessment Methods (Measures and Benchmarks)

- Choose assessment methods that will provide useful information

What are the short comings of this example?

- **Outcome:** Students completing the Hypothetical Engineering program will demonstrate competence in conducting research.
- **Assessment method** (Measure & Benchmark): 90% of all graduates will successfully complete the Senior Design project. (Benchmark)

- Choose assessment methods that matches with learning outcomes

What are the short comings of this example?

**Outcome:** Students completing our program can explain concepts and theories in our discipline

**Assessment method** (Measure & Benchmark): Each course requires students to examine different terms, all the embedded questions followed this format: Define four of the following five terms: .....

# Helpful hints for Selecting Assessment Methods (Measures & Benchmarks)

- It is up to the program to determine what are acceptable benchmarks for its discipline.
  - Internal benchmark: 75%-80%
  - External benchmark: It is up to program.

# Sample SLOs and Measures: English BA

## **Outcome: Conceptual and Discipline-Specific Knowledge**

Graduates of the Department of English B. A. program will demonstrate the ability to write essays, fiction, and poetry reflective of a high command of the interpretative and creative tasks required by the assignment and course materials.

## **Measure:**

A team of faculty (including representatives from our Creative Writing, Literature, and Technical Communication tracks) will assess a random sample of at least 20 papers from our three gateway courses (CRW 3013, ENG 3014, and ENC 3241) to determine whether students demonstrate the ability to respond to the conceptual and discipline-specific knowledge requirements of their writing assignments. Each paper will be rated as Poor, Fair, Good, or Excellent by at least three different raters. Our target is for 80% of the sample to achieve an average rating of Fair or better. Our stretch target is for 80% of the sample to achieve an average rating of Good or better.

# **Step 3: Assessment Methods Measures & Benchmarks**

**Questions?**

# **Step 3: Practice**

**10 minutes Break**



# Step 4: Data Collection, Analysis and Results

Course	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
1000	I	I		I		I
1000		I	I	I	I	
2000	I		I	I		I
2000		I		I	I	
3000	R	R		R		R
3000		R	R	R	R	R
4000		A		A	A	
4000	A	A	A	A	A	A

# Step 4: Data Collection, Analysis and Results

Course	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
1000	I	I		I		I
1000		I	I	I	I	
2000	I		I	I		I
2000		I		I	I	
3000	R	R		R		R
3000		R	R	R	R	R
4000		A		A	A	
4000	A	A	A	A	A	A

## **Step 4: Practice (10 minutes)**

- **Use the curriculum map to decide the five-year assessment timeline**
- **Use your curriculum map to decide on assessment point**
  - Where should formative assessment occur?
  - Where should summative assessment occur?
  - What will be your measures and benchmarks for these assessments?

# Step 4: Data Collection, Analysis and Results

- You must analyze your data!!! → Course-embedded assessment
- Analyzing quantitative data: Use both numbers and percentages
  - Percentages are easier to understand and more meaningful than raw numbers. Percentages make it easier to compare groups of different sizes, e.g., when you compare your current class again a class four years ago or against peers at other schools.

# Step 4: Data Collection, Analysis and Results

- Analyzing qualitative data: Qualitative results from reflective writing, open-ended survey questions, and focus group transcriptions can be summarized through grouped listings and thematic analysis.

What was the one thing that was most useful for you to learn in this session?

**Interaction with peers (five comments)**

- Discussing with peers
- Learned from classmates
- It was helpful interacting with each other.
- Different perspectives within group discussions
- Group work on topics

**Teacher presentation (three comments)**

- Lecture on subject matter
- Examples of practical implications
- The PowerPoint slides are really helpful.

**General (two comments)**

- A great learning atmosphere
- Interesting topics

# Step 4: Data Collection, Analysis and Results

## Presenting analysis

- Tables and graphs are useful in presenting analysis because they focus attention to specific results.
- When sharing the results of program assessment, it may be useful to align assessment results with any program outcomes and discuss the implications of the data as they relate to the program outcomes.

# Step 4: Data Collection, Analysis and Results

- Presenting analysis examples: Good, Better and best?

**Students meeting or exceeding the performance standard for ethical reasoning**

35

**Students meeting or exceeding the performance standard for ethical reasoning**

Below standard

Met standard

Exceeded standard

5

20

15

**Students meeting or exceeding the performance standard for ethical reasoning**

Below standard

Met standard

Exceeded standard

12.5% (5)

50% (20)

37.5 % (15)

# Step 4: Data Collection, Analysis and Results

## Writing the assessment results

- How data were collected and who collected it e.g. all sections of Econ 1010
- Interpretation
- Connecting findings to program learning outcomes



# Step 4: Examples

## Communication M.A.

**Assessment method:** 90% of students will demonstrate satisfactory or above satisfactory knowledge of quantitative research methods. A 3 member faculty panel will judge comprehensive exams rating them as above satisfactory, satisfactory, or unsatisfactory.

**Results:** 2009-10, of 21 students 5 scored above satisfactory, 8 satisfactory, and 8 unsatisfactory. Only 62% of students were rated satisfactory or above, far short of the 90% goal.

# Step 4: Examples

## Public Administration, B.A./B.S.

**Assessment Method:** Survey was sent to graduating seniors asked if they “are able to identify and discuss the major fiscal issues and the administration of revenue and expenditures.”

- **Benchmark:** 80% of students should indicate they “agree” or “strongly agree” with this statement.
- **Results:** 77.2% (n=44) of respondents “agreed” or “strongly agreed” with this statement. Open-ended survey responses did not provide written explanations indicating why the goal was not met.

# **Step 4: Data Collection, Analysis and Results**

**Questions?**

# Step 5: Actions for Improvement

- **Share assessment results** with all program faculty and discuss them together, so that any changes can be decided on collectively.
- **Develop a timetable** for implementing changes and for following up to see if the change had the intended effect.
- **Decide** on the program's focus for the **next assessment task**.
- Look at **the most positive results** and consider **what practices** may have contributed to these results.
- Look at **the least positive results** and consider what change in practice might **remedy** the situation.

# Step 5: Actions for Improvement

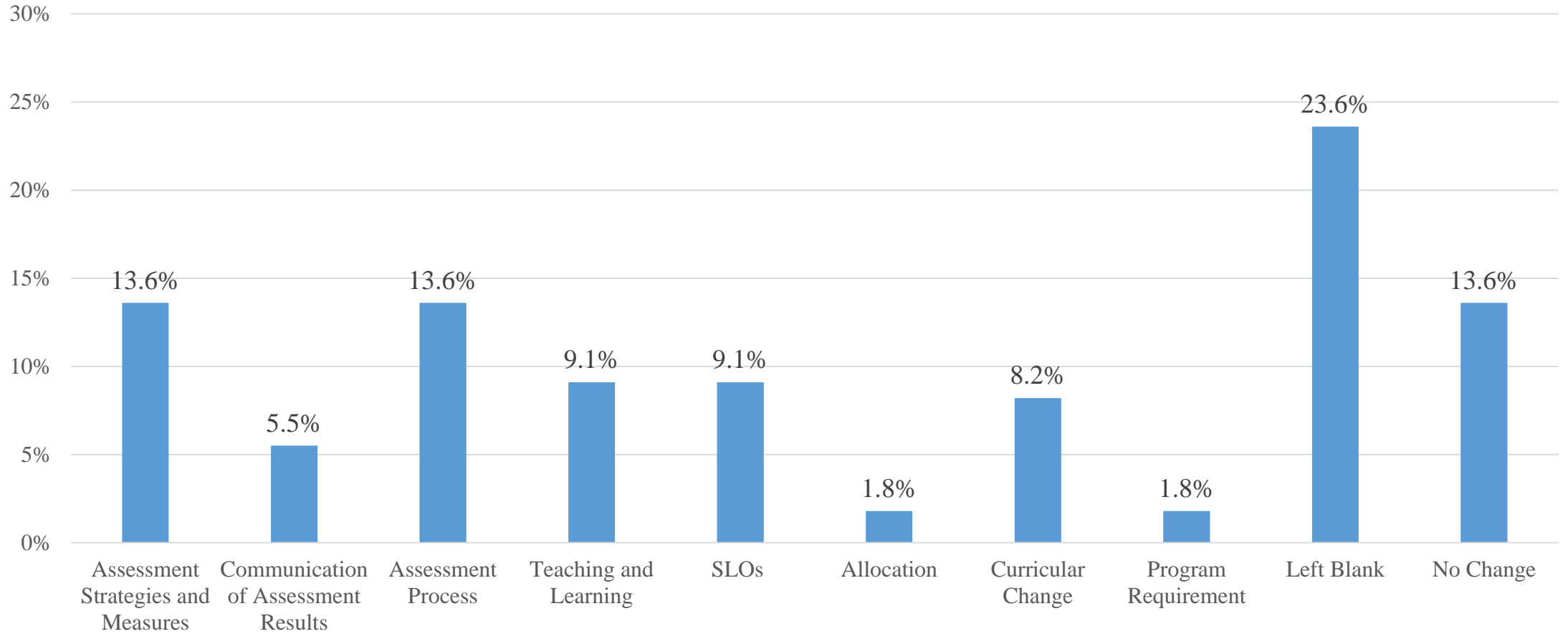
## Examples of Types of Actions that Can Be Taken

**Process-based:** Change your **process of assessment** such as your assessment measures or the sample you are using

**Finding-Based:** Make changes based on the **evidence of student learning**

- **SLOs:** Revisiting/changing program SLOs
- **Curricular changes:** Adding, deleting a course or change in the curriculum map.
- **Assessment strategies and measures:** Adjust the benchmark
- **Teaching and learning:** Revise/Modify the content of a course, pedagogy (delivery methods) or learning activities

# ACTIONS FOR IMPROVEMENT - 2015-2016



# **Step 5: Actions for improvement**

Have a look at the handout for examples of actions for improvement

Have a look at the handout for examples of assessment reports

# **Step 5: Actions for Improvement**

**Questions?**



# Step 6: Impact of Actions

**You have just determined your action, so it is too early to know what the impact of these actions will be. What do we do?**

- Put in place for a year and monitor
- At end of year, assess your action(s)
- What happened to student learning relative to your previous results. (Higher, lower, no change)

# Step 6: Examples

## Political Science M.A.

- **Assessment method:** 80% of students will demonstrate proficiency in evaluating and critiquing research.
- **Measure:** Part I of a comprehensive exam will be evaluated using a 5 area rubric each worth 4 points. A score of 12/20 or above will demonstrate proficiency.

# Step 6: Examples

Year	Count	Percent of student rated proficiency
2011-2012	29/41	71%
2012-2013	13/16	81%
2013-2014	6/8	75%
2014-2015	13/13	100%

# Step 6: Examples

## Action taken or strategy implemented:

- Following 2011-12, the format of the exam was changed to focus more on methodology.
- New graduate students were assigned to a faculty mentor.
- A new course “Conduct & Political Inquiry” addressing research design and methods was designed and scheduled to begin in 2013-14.

**Improvement:** In the 3 year period in which strategies were implemented there was an overall improvement of 29%. While there was a slight decline in 2013-14 the results were still an improvement over 2011-12, and it can be attributed to smaller sample size and the fact that not all students had experienced the new course.

# Step 6

Questions?

# Program Assessment Cycle

## Major deadlines

- **Sep 15<sup>th</sup>:**
  - Discuss the assessment results with your programs,
  - Actions for improvement
  - Curriculum map.
- **October 30<sup>th</sup>:** Enter AY 16-17 assessment data into TK 20

# **TK 20 Instruction**

*Assessment Resources- Assessment Website*

# FACULTY QUALIFICATION

- Short term goal: consistent faculty qualification documentation, annual reports etc.
- Long term goal: Tenure and Promotion
- FQ training in October- Schedule update in Assesment website.



If you have any questions or need to have a follow up support, please  
contact

**Nhung Pham**

**Email: [pham@ucmo.edu](mailto:pham@ucmo.edu)**

**Office: 8855**

**Thank you for your participation!**