

#### Feedback for the 2017-2018 Annual Assessment Report Department of Kinesiology and Health Science BS Health Science

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> Fall 2018 California State University, Sacramento



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#### I. Summary Memo to the Deans/Chairs/Program Directors

То:	Chair, Department of Kinesiology and Health Science
From:	Dr. Amy Liu, Director, Office of Academic Program Assessment (OAPA)
Date:	Fall 2018
Subject:	Feedback for the 2017-2018 Annual Assessment Report
CC:	Office of Academic Affairs

The 2017-2018 Annual Assessment reports are based on responses to the 2017-2018 Annual Assessment Report Template prepared by the Office of Academic Program Assessment (OAPA). The feedback for the 2017-2018 Annual Assessment Report is summarized below:

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We have used the appropriate rubrics from WASC Senior College and University Commission (WSCUC) for guidance on effective assessment practices in several areas, including the quality of learning outcomes, assessment plans, methods/data/analysis, Program Review, general education, and the use of assessment data for curricular improvement, academic planning, and budgeting.

We hope all the previous **feedback** reports that you have received from the Office of Academic Program Assessment (2011-2017) in addition to the current one (2017-2018) will be used to help the academic unit (department, program, or college) determine the extent to which its current assessment system is adequate and what additional components or processes may need to be developed or improved for **all the degree programs** in the academic unit.

We would like to thank Amy Wallace, Associate Vice President for Academic Excellence, Kathy Mine, Administrative Support Coordinator, our assessment consultant team, and our student assistants, Dylan Baker and Shelby Zahn, for their support in this assessment review process.

If you have any questions or suggestions, please contact <u>Dr. Amy Liu</u> (liuqa@csus.edu), Director of OAPA.

Thank you.

#### II. Commendations and Recommendations for the 2017-2018 Annual Assessment Report BS HEALTH SCIENCE

#### **Commendations:**

The program has submitted the report, and is commended for addressing the following areas well:

**Program Learning Outcomes and their Alignment:** 

• Defined learning outcomes.

#### Measures, Rubrics and their Alignment:

- Used multiple measures one direct (key assignment) and one indirect (student survey).
- Provided the key assignment used in assessment.

#### **Data Collection and Presentation:**

• Multiple faculty participated in the planning of assessment.

#### **Recommendations:**

As the program continues its annual assessment efforts we encourage it to pay attention to the following areas: **Program Learning Outcomes and their Alignment:** 

- The program does not have the learning outcome Inquiry and Analysis.
- This seems to be a very large number of PLOs. There are 5 PLOs for Health Science, 11 for Community Health Education, 10 for Occupational Health and Safety, and 12 for Health Care Administration. Is the program prepared to measure all of these PLOs in each program review cycle? Many of these actually look like course learning outcomes rather than program learning outcomes. It might be useful to examine these PLOs and see if there are some general categories that could be defined that cross the concentrations.

#### Measures, Rubrics and their Alignment:

- Since this rubric is developed and used by the faculty who teaches the class, we are uncertain if this rubric is used for the program learning outcome. Was it developed just for this assignment in this particular class?
- Make sure the alignment between the direct measure (group project) and PLO (analysis and inquiry) is clear.

#### **Standards of Performance at Graduation:**

• Set an explicit standard of performance for the direct measure. What does the program mean by "successful completion of the assignment?" The program can be more specific in stating that, for example, "70% of the students will achieve at least a score of 3 or higher in all dimensions of the rubric."

#### **Data Collection and Presentation:**

- Please use Appendix 12C as an example of how to present data clearly. Please show the distribution of scores.
- We encourage the program to utilize multiple faculty members to evaluate the assignment and use a norming process to ensure that evaluators are scoring assignments similarly.

#### **Use of Assessment Data:**

• Please use all the assessment feedback from this office to improve your assessment effort and quality. See last year's feedback for more details.

#### III. Detailed Feedback for the 2017-2018 Annual Assessment Report

Q1.1. Which of the following Program	See the Assessment Report
Learning Outcomes (PLOs), Sac State Baccalaureate Learning Goals (BLGs), and emboldened Graduate Learning Goals (GLGs) <b>did you assess?</b>	Inquiry and Analysis
Q1.2. Please provide more detailed background information about EACH PLO you checked above and other information including how your specific PLOs are explicitly linked to the Sac State BLGs/GLGs: [See BLGs/GLGs]	See the Assessment Report
<b>Q1.2.1.</b> Do you have rubrics for your PLOs?	Yes, for all PLOs.
<b>Q1.3.</b> Are your PLOs closely aligned with the mission of the university?	Yes
<b>Q1.4.</b> Is your program externally accredited (other than through WASC Senior College and University Commission (WSCUC)?)	No
<b>Q1.4.1.</b> If the answer to Q1.4 is yes, are your PLOs closely aligned with the mission/goals/outcomes of the accreditation agency?	N/A=Not Applicable
<b>Q1.5.</b> Did your program use the <b>Degree</b> <b>Qualification Profile</b> (DQP) to develop your PLO(s)? [See <u>DegreeProfile.org</u> ]	No, but I know what the DQP is.
<b>Q1.6.</b> Did you use action verbs to make each PLO measurable?	Yes
<b>Q2.1.</b> Select <u>OR</u> type in <b>ONE(1)</b> PLO here as an example to illustrate how you conducted assessment (be sure you <i>checked the correct box</i> for this PLO in Q1.1):	See the Assessment Report Inquiry and Analysis
	<ul> <li>Baccalaureate Learning Goals (BLGs), and emboldened Graduate Learning Goals (GLGs) did you assess?</li> <li>Q1.2. Please provide more detailed background information about EACH PLO you checked above and other information including how your specific PLOs are explicitly linked to the Sac State BLGs/GLGs: <ul> <li>[See BLGs/GLGs]</li> </ul> </li> <li>Q1.2.1. Do you have rubrics for your PLOs?</li> <li>Q1.3. Are your PLOs closely aligned with the mission of the university?</li> <li>Q1.4. Is your program externally accredited (other than through WASC Senior College and University Commission (WSCUC)?)</li> <li>Q1.4.1. If the answer to Q1.4 is yes, are your PLOs closely aligned with the mission/goals/outcomes of the accreditation agency?</li> <li>Q1.5. Did your program use the Degree Qualification Profile (DQP) to develop your PLO(s)?</li> <li>[See DegreeProfile.org]</li> <li>Q1.6. Did you use action verbs to make each PLO measurable?</li> <li>Q2.1. Select <u>OR</u> type in ONE(1) PLO here as an example to illustrate how you conducted assessment (be sure you checked the correct box for this PLO in</li> </ul>

	<b>Q2.1.1.</b> Please provide more information about the <b>specific PLO</b> you've chosen in Q2.1.	See the Assessment Report
	<b>Q2.2.</b> Has the program developed or adopted <b>explicit program standards of</b> <b>performance/expectations</b> for this PLO? (e.g. "We expect 70% of our students to achieve at least a score of 3 or higher in all dimensions of the Written Communication VALUE rubric.")	Yes
	Q2.3. Please 1) provide and/or attach the rubric(s) <u>AND</u> 2) the standards of performance/expectations that you have developed for <i>the selected PLO</i> here:	See the Assessment Report HLSC 116 Group Project 1 Doing Public Health in Del Norte County
	<b>Q2.4.</b> Please indicate where you have published the selected <b>PLO</b> :	See the Assessment Report
	<b>Q2.5.</b> Please indicate where you have published the <b>standard</b> of performance:	See the Assessment Report
	<b>Q2.6.</b> Please indicate where you have published the <b>rubric:</b>	See the Assessment Report
Q3: Data Collection Methods and Evaluation of Data Quality for the Selected PLO	<b>Q3.1.</b> Was assessment data/evidence <b>collected</b> for the selected PLO?	Yes
	Q3.1.1. How many assessment tools/methods/measures in total (#) did you use to assess this PLO?	2
	<b>Q3.2</b> . Was the data <b>scored/evaluated</b> for this PLO?	Yes
	<b>Q3.2.1.</b> Please describe how you collected the assessment data for the selected PLO. For example, in what course(s) or by what means were data collected:	See the Assessment Report "Student performance for an assignment given in HLSC116, and results of the annual senior survey."
Q3A: Direct Measures (key assignments, projects, portfolios, etc.)	<b>Q3.3.</b> Were direct measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess this PLO?	Yes
	<b>Q3.3.1.</b> Which of the following direct measures (key assignments, projects,	See the Assessment Report

portfolios, course work, student tests, etc.) were used? [Check all that apply]	Key assignments from required classes in the program
<ul> <li>Q3.3.2. Please 1) provide and/or attach the direct measure (key assignments, projects, portfolios, course work, student tests, etc.) you used to collect data, <u>THEN</u></li> <li>2) explain here how it assesses the PLO:</li> </ul>	See the Assessment Report
<b>Q3.4</b> . What tool was used to evaluate the data?	Used rubric developed/modified by the faculty who teaches the class
<b>Q3.4.1. If</b> you used other means, which of the following measures was used?	N/A
<b>Q3.4.2</b> . Was the <b>rubric</b> aligned directly and explicitly <b>with the PLO</b> ?	Not Clear
<b>Q3.4.3.</b> Was the <b>direct measure</b> (e.g. assignment, thesis, etc.) aligned directly and explicitly <b>with the rubric</b> ?	Yes
<b>Q3.4.4</b> . Was the <b>direct measure</b> (e.g. assignments, thesis, etc.) aligned directly and explicitly <b>with the PLO</b> ?	Yes
<b>Q3.5.</b> Please enter the number (#) of faculty members who participated in planning the assessment data <b>collection</b> of the selected PLO?	7
<b>Q3.5.1.</b> Please enter the number (#) of faculty members who participated in the <b>evaluation</b> of the assessment data for the selected PLO?	1
<b>Q3.5.2</b> . If the data was evaluated by multiple scorers, was there a norming process (a procedure to make sure everyone was scoring similarly)?	N/A
<b>Q3.6.</b> How did you <b>select</b> the sample of student work (papers, projects, portfolios, etc.)?	See the Assessment Report
<b>Q3.6.1.</b> How did you <b>decide</b> how many samples of student work to review?	See the Assessment Report Evaluated all students

	<b>Q3.6.2.</b> Please enter the number (#) of students that were in the class or program?	42
	Q3.6.3. Please enter the number (#) of samples of student work that you evaluated.	42
	<b>Q3.6.4</b> . Was the sample size of student work for the direct measure adequate?	Yes
Q3B: Indirect Measures (surveys, focus groups, interviews, etc.)	<b>Q3.7.</b> Were indirect measures used to assess the PLO?	Yes
	Q3.7.1. Which of the following indirect measures were used? [Check all that apply]	See the Assessment Report College/department/program student surveys or focus groups
	<b>Q3.7.1.1.</b> Please explain and attach the indirect measure you used to collect data:	See the Assessment Report Senior Survey Spring 2018
	Q3.7.2. If surveys were used, how was the sample size <b>decided</b> ?	See the Assessment Report "All graduating seniors are required to complete the survey."
	Q3.7.3. If surveys were used, how did you select your sample:	See the Assessment Report "All graduating seniors are required to complete the survey."
	Q3.7.4. If surveys were used, please enter the response rate:	93%
Q3C: Other Measures (external benchmarking, licensing exams, standardized tests, etc.)	<b>Q3.8.</b> Were external benchmarking data such as licensing exams or standardized tests used to assess the PLO?	No
	Q3.8.1. Which of the following measures were used? [Check all that apply]	N/A
	<b>Q3.8.2</b> . Were other measures used to assess the PLO?	No
	Q3.8.3. If other measures were used, please specify:	N/A
Q4: Data, Findings, and Conclusions	<b>Q4.1.</b> Please provide tables and/or graphs to summarize the assessment data, findings, and conclusions for the selected PLO in <b>Q2.1</b> (see Appendix 12 in our Feedback Packet Example):	See the Assessment Report Please use Appendix 12C as an example of how to present data clearly.

	<b>Q4.1a.</b> Does the program explicitly assess the PLO?	Not Clear
	<b>Q4.2.</b> Are students doing well and meeting program standard? <b>If not,</b> how will the program work to improve student performance of the selected PLO?	Missing
	<b>Q4.2a.</b> Can the readers come to the <b>SAME</b> conclusion?	<b>No</b> A data table was not provided.
	<b>Q4.3.</b> For the selected PLO, what is the student performance:	Met expectation/standard
	<b>Q4.3a.</b> Can the readers come to the <b>SAME</b> conclusion as the program that students meet the expectations/standards for this learning outcome?	Partially
Q4A: Alignment and Quality	<b>Q4.4.</b> Did the data, including the direct measures, from all the different assessment tools/measures/methods directly align with the PLO?	Not Clear
	<b>Q4.5</b> . Were <b>all</b> the assessment tools/measures/methods that were used good measures for the PLO?	Not Clear
Q5: Use of Assessment Data (Closing the Loop)	<b>Q5.1.</b> As a result of the assessment effort and based on prior feedback from OAPA, do you anticipate <b>making any changes</b> for your program (e.g. course structure, course content, or modification of PLOs)?	No
	<b>Q5.1.1.</b> Please describe <i>what changes</i> you plan to make in your program as a result of your assessment of this PLO.	N/A
	<b>Q5.1.2.</b> Do you have a plan to assess the <b>impact of the changes</b> that you anticipate making?	N/A
	<b>Q5.2.</b> To what extent did you apply <b>previous assessment results</b> collected through your program in the following areas?	See the Assessment Report

	<b>Q5.2.1.</b> Please provide a detailed example of how you used the assessment data above.	See the Assessment Report
	<b>Q5.3.</b> To what extent did you apply <b>previous assessment feedback</b> from the Office of Academic Program Assessment in the following areas?	See the Assessment Report
	<b>Q5.3.1.</b> Please share with us an example of how you applied <b>previous feedback</b> from the Office of Academic Program Assessment in any of the areas above:	See the Assessment Report
Additional Assessment Activities	<b>Q6.</b> If your program/academic unit conducted assessment activities that are <b>not directly related to the PLOs</b> for this year (i.e. impacts of an advising center, etc.), please provide those activities and results here:	See the Assessment Report
	<b>Q6.1.</b> Please explain how the assessment activities reported in <b>Q6</b> will be linked to any of your PLOs and/or PLO assessment in the future and to the mission, vision, and the strategic planning for the program and the university:	See the Assessment Report
	<b>Q7.</b> What PLO(s) do you plan to assess next year? [Check all that apply]	See the Assessment Report Quantitative Literacy
	<b>Q8.</b> Please explain how this year's assessment activities help you address recommendations from your department's last program review?	See the Assessment Report "Feedback from the program review was integrated into planning and implementation of this year's assessment."
	<b>Q9.1</b> If you have attached <b>any</b> files to this form, please list <b>every</b> attached file here:	See the Assessment Report HLSC 116 Course Assignment and Evaluation Rubric; Spring 2018 Graduating Senior Survey; Health Science Learning Goals and Outcomes; health Science Curriculum Map
Summary	<b>S1.</b> Does the program follow the template by answering where applicable?	Yes
	<b>S2.</b> Were the program's answers simple and clear?	Not Clear

	The program's answers are simple but not clear.
<b>S3.</b> Does the program assess the PLO using correct alignment of standard, rubric, and measure (Q3.4.2 - Q3.4.4)?	Not Clear
<b>S4. Overall,</b> do students partially meet, meet, or exceed program's standard of performance <b>based on consultant's</b> review?	Don't know How the program is defining "successful" completion of the assignment is unclear. Please see our recommendations for more details.

#### II. Commendations and Recommendations for the 2016-2017 Annual Assessment Report BS Health Science

#### **Commendations:**

The program is commended for addressing the following areas well: Measures, Rubrics and their Alignment:

- Used VALUE rubric to measure student learning.
- Course rubric was provided.

Standards of Performance at Graduation:

• A program standard of performance was set.

#### **Data Collection and Presentation:**

• Data was provided in easy-to-read tables.

#### Use of Assessment Data:

• Used last year's assessment data to improve courses and strategic plan.

#### **Recommendations:**

As the program continues its annual assessment efforts we encourage it to pay attention to the following areas: **Program Learning Outcomes and their Alignment:** 

- The program pursued an ambitious task utilizing one direct measure and two indirect measures. However, how the PLO's, measure's, and rubric's alignment with each other was not clear. For example, it is not clear how the grading rubric which evaluates students' performance in three areas (bibliography, power point, and pamphlets) aligns with the identified PLO - Foundations and Skills Lifelong Learning.
- The program seems to have confused the list of student competencies provided in Q1.2 with its own PLOs. Programs define their own PLOs; for this report they then check the box that best describes the PLO they chose to assess. Not all programs have PLOs based on all of the competencies in the list. This program does not appear to have any PLOs in its assessment plan that directly align to **Foundations and Skills for Lifelong Learning**. While this competency is certainly a worthy goal, if the program wishes to have this be one of its PLOs, that should be reflected in the assessment plan. We did not understand how any of the listed PLOs aligned with the competency (Foundations and Skills for Lifelong Learning) that the program chose to measure. If it is aligned, please explain which of the listed PLOs are being measured in this assessment effort.
- The program seems to have a very large number of PLOs. There are 5 PLOs for Health Science, 11 for Community Health Education, 10 for Occupational Health and Safety, and 12 for Health Care Administration. *Is the program prepared to measure all of these PLOs in each program review cycle?* Many of these actually look like **course** learning outcomes rather than **program** learning outcomes. It might be useful to examine these PLOs and see if there are some general categories that could be defined that cross the concentrations. For example, all of the concentrations have learning outcomes around the implementation of health programs, all seem to have learning outcomes around understanding the theories and issues that underlie health care programs. Perhaps the program could identify a smaller, more manageable number of PLOs that could be measured within a program review cycle.

#### **Data Collection and Presentation:**

- It is difficult to identify where the data for table two (Foundations and Skills Lifelong Learning VALUE Rubric) is derived.
- Link the data table more explicitly to the PLO, rubric, and standard of performance (i.e., data table should show what percentage of students met the 3-out-of-4 standard for teamwork.)
- Break the data out by **percentage** of students scoring at each level of the rubric for each criterion. This usually yields more actionable information than do means. For purposes of program

improvement, it is important to look at the criteria and not just the overall mean, to identify what specific skills students need assistance with. Please see Appendices 12B.1-12C on how to present data clearly.

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#### Appendix 1. Guidelines for Completing the Assessment Report Template

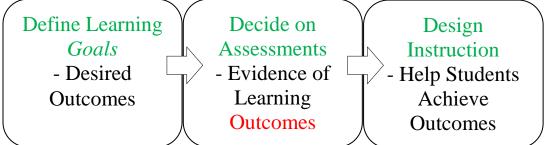
This template has two goals:

- 1. To help departments and programs think more critically about their assessment procedures, the use of assessment results, and to report more accurately the outcomes of those procedures.
- 2. To provide OAPA with the information necessary for reporting the campus assessment effort to our accreditation agency, WASC Senior College and University Commission (WSCUC).

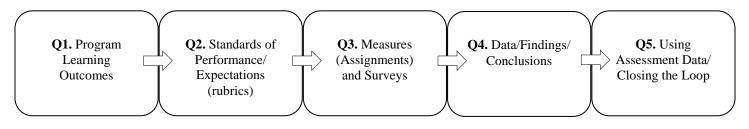
Based on user comments, revisions were made in last year's template to make the template easier to read and use. We also hope the current revision better reflects a focus on the whole assessment process, from the development of measurable Program Learning Outcomes (PLOs), to the design of an appropriate and high-quality system for collecting and analyzing data, as well as the most important part of program assessment – the steps taken to improve the program and student learning.

Program review and assessment are based on Backward Design:

# Backward Design for Assessment



Program assessment follows this basic flowchart:



Program assessment also follows the assessment paradigm shifts below:

1.	<b>Teaching Centered</b>	Learning Centered	Partnership
	Goals/Objectives	Goals/Outcomes	Goals/Outcomes
	Teaching/Instructor focused	Learning/Student focused	Learning and Student focused
	Implicit criteria/Standards	Explicit criteria/Standards	Explicit criteria/Standards
	No rubrics or rubric developed by the course instructor	<b>Rubrics developed by the program/university faculty</b>	Rubrics developed by the program/university faculty, staff, and students
	Data collected and analyzed by course instructor (course focused)	Data collected and analyzed by the program or university committee (program or university focused)	Data collected and analyzed by the program/ university committee, staff, and students
	Assessment driven by instructor	Assessment driven by program faculty	Assessment driven by all stakeholders; (faculty, staff, administrators, and students)
2.	Data collection	Use of data for improvement	Use of data for accountability
3.	Indirect assessment	Direct assessment	Direct and indirect methods
4.	Course assessment	Program assessment	University assessment
5.	Content knowledge	Skills/Values	Application of knowledge and skills
6.	Tests/Exams	Projects besides tests/exams	Internships besides projects and tests
7.	Majors as frames of reference/different perspectives	Inter-disciplinary studies	Problem-based multi- disciplinary studies

These guidelines are organized to parallel the structure of the template, and are divided into four sections.

#### Section 1: Report All of the Program Learning Outcomes Assessed

#### **Question 1: Program Learning Outcomes**

- **Q1.1:** This list of possible PLOs compiles the WSCUC Five Core Competencies, our Sacramento State Baccalaureate Learning Goals (BLGs), Graduate Learning Goals (GLGs), and more specific learning outcomes that may be specific to your program. Check all that apply. If you did not collect data on PLO assessment, please skip to Q6.
- Q1.3: Find the University Mission Statement at <u>http://www.csus.edu/universitystrategicplan.</u>

#### Section 2: Report One Learning Outcome in Detail

In Questions #2-5, programs will report in detail on one PLO that they have assessed. You will have an opportunity at the end of the template to report a summary of any other assessment work you did for any other PLOs, and for any other program improvement steps you took that are not directly connected to a PLO.

The purpose of questions 2-5 is three-fold:

- 1. To provide your program an opportunity to think critically about the process you are using to assess the PLOs for your program. We encourage you to think about whether the measures you are using and the tools (such as rubrics) that you use to evaluate that data actually address the PLO you are trying to measure. We also encourage you to think about the quality of the data you are collecting. If you are sampling a larger student population, *does the sample adequately represent all your students? Are all the evaluators using the same standards in scoring student work?*
- 2. To help your program "close the loop" and use assessment data to improve student learning in your program. Ultimately the goal of assessment is to improve program quality. Assessment should be a useful experience for your program, not just a hoop to jump through.
- 3. To provide OAPA with evidence of the nature of assessment on the campus. This evidence is used both to give feedback to programs on making their assessment process more useful to the program, and in reporting to the Chancellor's office and outside agencies such as WSCUC.

#### **Question 2: Standards of Performance for a Selected PLO**

In addition to specifying what you want students to learn, you must specify what level of learning is acceptable for an **individual** student, and for **all** the students in your program. For example, the faculty in your program may agree that a score of 3 in all dimensions on a particular rubric is a reasonable standard to set for the students graduating from your BA program. As a program, you may decide that it is a reasonable target that 70% of your students are scoring at this level or above, or you may adjust these targets over time, but it is essential to specify a target standard of performance for each PLO.

Q2.1: Please state which of the PLOs you described in Question 1 you are choosing to report in detail.

- **Q2.2.a:** Answer the question **just for the selected PLO**. This is often simply stated as a percentage of students reaching a certain level of achievement on a rubric (e.g. 70% of students achieve a 3 or higher in all dimensions of the Critical Thinking VALUE rubric).
- **Q2.3:** Describe/attach the **standard of performance AND the rubric**, criteria, or scoring device you used to evaluate the PLO. For purposes of program improvement, it is most useful to:
  - Express the standard of performance as a percentage of students performing at a particular level, rather than as a mean.
  - Use a scoring device (such as a rubric) that specifies varying levels of performance.
  - See Appendix **12A** for an example.
- Q2.4, Q2.5, & Q2.6: It is considered good assessment practice to make the learning goals, standards and measuring devices (such as rubrics) available for others to see, including students, other faculty, administrators, and the public. This question asks about the range of ways in which this information might be published. It is not necessarily appropriate that all of your assessment information be published in all of these ways. The University does need to know in which ways this information is currently being communicated to others.

#### **Question 3: Data Collection Methods and Evaluation of Data Quality**

The question differentiates between direct measures, indirect measures, and other measures. **Direct measures** are those that measure **student performance in their program**. These measures can include key assignments in courses within the program, performances in capstone projects, portfolios either within courses or as program culminating experiences, and the like.

**Indirect measures** are those that ask students and others for their **impression of your program**. The measuring device might be surveys, focus groups or interviews; those involved might include students, alumni, employers or others familiar with the program.

Your program may have access to **other measures** aside from student performance or survey data. Students in some programs undergo examinations for licensing or credentialing. In some fields there are recognized tests that can be used to compare student performance at different institutions. Some fields have specialized GREs or other achievement exams.

Q3.1 & 3.1.1: If data was collected, please indicate how many tools and/or classes were used. For example, a capstone portfolio might be one tool, and a key assignment in a specific course would be another.
Q3.2 & 3.21: Please describe how all assessment data for this PLO was collected.
Q3.3 & 3.3.1: Indicate if direct measures were used and what kind.

Question 3 (Q3). Direct Measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess the PLOs

This question is where you describe how you plan to align your data to your direct measure, using key assignments, projects, portfolios, course work, student tests, etc.

Q3.3.2. Please attach the assignment instructions that the students received to complete the assignment (See Appendix 1 Sample Answer to Q3.3.2):

**Example Answer to Q3.3.2:** 

The key assignment for the iMET program assessment is the **Action Research Report.** iMET used this **Action Research Report** (Master's Thesis) included in an accessible ePortfolio as its direct measure to assess its Critical Thinking PLO.

This culminating experience report (the master thesis) includes the following tasks:

- 1. Designing and implementing a study using data collection tools that will allow the students to "show" the reader what happened during and as a result of the intervention.
- 2. Sorting through the findings after collecting the data, looking for data that reveal some information pertinent to the study.
- 3. Looking for relationships (patterns) between the data. These patterns emerge from a variety of sources such as things that have happened, things that students have observed, things that people have said, and things that students have measured. These are the findings (conclusions) of the study.
- **Q3.4:** The VALUE rubrics are nationally recognized and can be used to measure various aspects of postsecondary education. We encourage your program to use VALUE rubrics where possible to assess your PLOs. Use of a common rubric allows us to aggregate data and better understand student learning across the University, while also allowing the comparison of performance between our students and students at other institutions. If you find that a particular VALUE rubric does not quite work for your PLO, perhaps some items on the rubric may work, and you can use a modified VALUE rubric. If the VALUE rubrics just won't work for your program, you might use a rubric from elsewhere. There are also some kinds of data for which a rubric is not needed (e.g., student performance on a diagnostic exam).
- Q3.4.2, Q3.4.3 & 3.4.4: <u>Alignment</u>: These questions investigate how well the direct measure you have chosen and the way you evaluate performance on the measure (using a rubric, setting criteria for evaluation, a grading sheet, etc.) actually measure progress on the PLO you are assessing. For example, if your PLO is addressing Critical Thinking, and your direct measure is a multiple choice test that measures Content Knowledge, then there is poor alignment between your goals and your instrument for measuring progress toward that goal. If your PLO addresses Civic Engagement, then the measure should address the aspect of Civic Engagement with which you are the most concerned.

Likewise, you should consider how well the device you are using to evaluate the direct measure actually fits the task students will be doing in that direct measure. For example, if your PLO addresses student competency in Writing in the discipline, and your measure asks students to write a technical report, then your rubric should apply to that kind of writing.

Finally, *does the rubric or other scoring device support the PLO?* For example, your PLO may call for students to be effective writers in the discipline. If your scoring device is much more heavily geared toward the mechanics of writing (spelling, punctuation, etc.) than toward the larger issues of writing (clarity, organization, depth of discussion), then it may not be accurately capturing progress toward becoming an effective writer.

- Q3.4.2 asks you to consider the rubric or scoring device in light of the PLO. *Does that scoring device actually capture progress toward the PLO?*
- Q3.4.3 asks whether the rubric or other scoring device is appropriate for the direct measure you are using.
- Q3.4.4 is effectively asking, does your direct measure actually measure student performance on this PLO?
- Q3.5 & 3.5.1: If you have a lot of data, or data from multiple sections of a course, or data from multiple assessment tools, you may have more than one person evaluating the data. A **norming process** helps ensure that everyone uses the same standards when scoring (unless your direct measure is a multiple choice exam or something similar). In a typical norming process, all the scorers score a select set of

papers, and then compare their scores and discuss the results to help find consensus. Please enter the number.

Q3.6 - 3.6.4 <u>Sampling</u>: These questions investigate how you chose the samples of student work that were evaluated during this assessment process. Please enter the actual number for Q3.6.2a and Q3.6.3a.

**Q3.6:** *What selection process did you use?* For example, a key assignment from every student in a specific class. If your program is large, you probably only chose some student work to examine for assessment. For example, perhaps you chose work from five students in five different sections. **Q3.6.1:** Please explain and/or justify your thinking in how the sample was selected.

**Q3.6.2a** - **3.6.4:** These questions help us see how the size of your sample compares to the amount of student work that was available to sample. *Do you think your sample was adequate to accurately represent student performance in your program?* 

Q3.7 - 3.8.3: These questions address **indirect measures**, such as surveys, focus groups and interviews, and **any other measures**, like external benchmarking or licensing exams. Please be sure to **attach copies** of any indirect or other measures used.

#### Question 4: Data, Findings and Conclusions and Quality of Assessment

This question is where you present your data. You may paste data tables into the form or attach documents.

**Q4.1:** Data should be presented in clear, easy-to-read tables. The most useful way to present the data is as **percentages** of students scoring at various levels of performance. If a rubric is used, show the percentage of students scoring at each level of the rubric. If the data is something like test scores, break out student performance at **different percentage levels** (e.g., % of students scoring 0-20%, 20-40%, etc.). This kind of data presentation gives a more complete picture of student performance than simply presenting averages. Please see Appendix 12C for an example.

### Table 1: Summary for the Results,Discussion, and Conclusions for the Critical Thinking Skill

Different Levels Five Criteria (Areas)	Capstone = (4)	Milestone = (3)	Milestone = (2)	Benchmark = (1)	Total (N=130)
6.1: Explanation of Issues	38%	54%	0%	8%	(100%, N=130)
6.2: Evidence	15%	46%	24%	15%	(100%, N=130)
6.3: Influence of Context and Assumptions	15%	46%	24%	15%	(100%, N=130)
6.4: Student's Position	23%	54%	8%	15%	(100%, N=130)
6.5: Conclusions and Related Outcomes	15%	54%	16%	15%	(100%, N=130)

**Q4.2:** This question refers to the program standard of performance (Question 2). Please detail how students are meeting or not meeting the standard, and plans to improve student performance. See Appendix **12C** for an example.

We can see from Table 1 above that students meet the criteria of 6.1 (92%), 6.4 (77%), and 6.5 (69%) based on the assessment of our selected Critical Thinking PLO and our identified program standard of performance (70% of students should achieve a score of 3 or higher in all dimensions of the Critical Thinking Rubric). Students do not meet the criteria of 6.2 (61%) and 6.3 (61%). **Students meet some of our program standards for the Critical Thinking Skill, thus they "***Partially Met Program Standards***." Two areas need improvement: 1) Criterion 6.2: Evidence (61%), and 2) Criterion 6.3: Influence of context and assumptions (61%).** 

In order to help students in our program successfully become researchers with critical thinking skills, we will design more classroom activities and assignments related to: 1) Re-examination of evidence (6.2) and context and assumptions (6.3) in the research, and 2) Require students to apply these skills as they compose comprehensive responses for all their assignments.

- **Q4.3:** Indicate the level of student performance.
- **Q4.4 & 4.5:** Please evaluate how well your assessment process actually measured what you set out to measure. *Did all of your tools align with the PLO you set to measure? Were all of these tools useful and accurate ways to measure that PLO?*

#### **Question 5: Use of Assessment Data**

Perhaps the most important component of program assessment is using the results to improve instruction and the program as a whole. Please tell us how your results will be, and have been, used.

- Q5.1: Tell us about your program's plans based on the current year's assessment results.
- **Q5.1.1:** Please describe what changes you plan to make in your program as a result of your assessment of this PLO.

#### **Example Answer to Q5.1.1:**

In order to help students in our program successfully become Critical Thinking researchers, we will design more classroom activities and assignments related to: 1) Re-examining evidence (6.2) and context and assumptions (6.3) in the research, and 2) Requiring students to apply these skills as they compose comprehensive responses for all their assignments.

Note: The following provide you examples of use of assessment data:

<b>Q5.2.</b> To what extent did you apply previous assessment results collected through your program in the following areas?	(1) Very Much	(2) Quite a Bit	( <b>3</b> ) Some	( <b>4</b> ) Not at all	(8) N/A
1. Improved specific courses					
2. Modified curriculum					
3. Improved advising and mentoring					
4. Revised learning outcomes/goals					

5. Revised rubrics and/or expectations		
6. Developed/updated assessment plan		
7. Annual assessment reports		
8. Program review		
9. Prospective student and family information		
10. Alumni communication		
11. WASC accreditation (regional accreditation)		
12. Program accreditation		
13. External accountability reporting requirement		
14. Trustee/Governing Board deliberations		
15. Strategic planning		
16. Institutional benchmarking		
17. Academic policy development or modification		
18. Institutional Improvement		
19. Resource allocation and budgeting		
20. New faculty hiring		
21. Professional development for faculty and staff		
22. Recruitment of new students		
23. Other Specify:		 

**Q5.2:** Tell us how **previous assessment results** have been used.

**Q5.3:** Tell us how **previous assessment feedback** has been used.

#### **Section 3: Report Other Assessment Activities**

#### **Question 6: Other Assessment Activities**

In this question, please provide any other assessment activities that are not reported above.

**Q6:** Sometimes programs/academic units conduct assessments of elements of their program not related to PLOs (i.e. impacts of an advising center, etc.), please provide those activities and results.

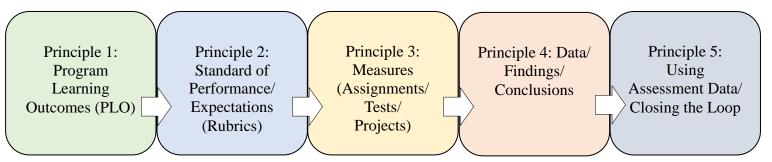
**Q6.1:** Explain how the assessment activities reported in **Q6** are associated with any of your PLOs and/or PLO assessment in the future and to the mission, vision, and the strategic planning for the program and the university.

#### **Section 4: Background Information about the Program**

See the template for more details.

#### **Appendix 2: Principles for Program Assessment and Review**

(Updated on 10/23/2017)



In the future, please keep the following principles and questions in mind when the academic unit (program, department, or the college) reflects on assessing student learning outcomes and improving the programs:

#### Principle 1 (Q1) Program Learning Outcomes (PLOs): PLO Comprehensive List

See WSCUC Rubric for Assessing the Quality of Academic Program Learning Outcomes (Appendix 3) for more details.

• What are your PLOs: *what should your students know, value, and be able to do* (*at the time of graduation*)?

#### Assessable Outcomes

- Is each program learning outcome assessable?
- What action verbs are used?

#### Alignment

- Is each PLO **aligned closely** with the curriculum, the key assignment, the rubric, pedagogy, grading, the co-curriculum, or relevant student support services?
- Are the PLOs aligned closely with the mission of the university and the program/department/college?

#### Assessment Plan

- Has an assessment plan for each program (department or college) been developed or updated?
- Have curriculum maps been developed?
- Does the plan clarify when, how, and how often each outcome will be assessed and used?
- Will all outcomes be assessed over a reasonable period of time such as within a six-year program review cycle?
- Is the plan sustainable in terms of human, fiscal, and other resources?
- Is the assessment plan revised as needed?

#### **Student Experience**

- Are the PLOs widely shared?
- Are students aware of these learning outcomes?
- Do they often use them to assess the learning outcomes themselves?
- Where are the PLOs published for view, e.g., across programs, with students, in the course syllabus, the department websites or catalogs?

#### Principle 2 (Q2) Standards of Performance (Expectations)/Rubrics:

## See WSCUC Rubric for Assessing the Quality of Academic Program Learning Outcomes (Appendix 3) for more details.

• What are the explicit **PROGRAM** (not course) **standards of performance** for each outcome?

- What are the *expectations* for each outcome?
- Have the programs achieved the learning outcomes: the standards and/or the expectations?
- Are *rubrics* needed to assess the PLOs? If yes, what rubrics are used to assess a particular PLO?
- Are these PLOs (together with their standards of performance and achievement targets) able to demonstrate the **meaning**, **quality**, **integrity and uniqueness** of the degree program?

#### Principle 3 (Q3) Measures Used: Relevant outcomes and lines of evidence identified. See Appendices 4 and 5 for more details.

- What **direct measures** (key assignments, projects, portfolios, course work, student tests, etc.) are used to collect the data?
- Is relevant evidence collected?
- What *indirect measures* (national, university conducted, college/department/program, alumni, employer, and advisory board student surveys or focus groups or interviews, etc.) are used to collect the data?
- Are external benchmarking data, such as licensing exams or standardized tests, being used to assess the *PLO*?
- Which other measures (national disciplinary, state/professional licensure exams, general knowledge and skills measures, other standardized knowledge and skill exams, etc.) are used?

#### Principle 4 (Q4) Data and Findings:

#### See Appendices 4 and 5 for more details.

#### Are the results reliable and valid?

- What are the data, analyses, and findings for EACH PLO?
- What is the quality of the data: how reliable and valid is the data?
- Other than GPA, what data/evidences are used to determine whether your graduates have achieved the stated outcomes for the degree (BA/BS or MA/MS)?
- If two or more pieces of assessment data are used for each outcome, is the data consistent or contradictory?
- Are the data, analyses, and findings clearly presented (in tables) so that they are easy for other faculty and the **general public** to understand and/or use?

#### Principle 5 (Q5) Use of Data: See Appendices 4 and 5 for more details.

#### Are the results used?

- Who is going to use the data?
- Is the data used only for the course or for the program where the data is collected, or do you want the data to be used broadly for the curriculum, budgeting, or strategic planning at the department, the college, or the university level?
- Follow-Up Assessment: Has the program conducted follow-up assessment(s) to evaluate the effectiveness of program changes made based on assessment data? If yes, how effective are those changes?

# Appendix 3: WSCUC "Rubric for Assessing the Quality of Academic Program Learning Outcomes" http://www.wascsenior.org/search/site/Rubrics%20combined

Criterion	Initial	Emerging	Developed	Highly Developed
1.Comprehensive List	The list of outcomes is problematic: e.g., very incomplete, overly detailed, inappropriate, and disorganized. It may include only discipline- specific learning, ignoring relevant institution-wide learning. The list may confuse learning processes (e.g., doing an internship) with learning outcomes (e.g., application of theory to real-world problems).	The list includes reasonable outcomes but does not specify expectations for the program as a whole. Relevant institution-wide learning outcomes and/or national disciplinary standards may be ignored. Distinctions between expectations for undergraduate and graduate programs may be unclear.	The list is a well-organized set of reasonable outcomes that focus on the key knowledge, skills, and values students learn in the program. It includes relevant institution- wide outcomes (e.g., communication or critical thinking skills). Outcomes are appropriate for the level (undergraduate vs. graduate); national disciplinary standards have been considered.	The list is reasonable, appropriate, and comprehensive, with clear distinctions between undergraduate and graduate expectations, if applicable. National disciplinary standards have been considered. Faculty has agreed on explicit criteria for assessing students' level of mastery of each outcome.
2.Assessable Outcomes	Outcomes statements do not identify what students can do to demonstrate learning. "Statements understand scientific method" do not specify how understanding can be demonstrated and assessed.	Most of the outcomes indicate how students can demonstrate their learning.	Each outcome describes how students can demonstrate learning, e.g., "Graduates can write reports in APA style" or "Graduate can make original contributions to biological knowledge."	Outcomes describe how students can demonstrate their learning. Faculty has agreed on explicit criteria statements such as rubrics, and have identified example of student performance at varying levels of each outcome.
3.Alignment	There is no clear relationship between the outcomes and the curriculum that students experience.	Students appear to be given reasonable opportunities to develop the outcomes in the required curriculum.	The curriculum is designed to provide opportunities for students to learn and to develop increasing sophistication with respect to each outcome. This design may be summarized in a curriculum map.	Pedagogy, grading, the curriculum, relevant student support services, and co- curriculum are explicitly and intentionally aligned with each outcome. Curriculum map indicates increasing levels of proficiency.
4.Assessment Planning	There is no formal plan for assessing each outcome.	The program relies on short-term planning, such as selecting which outcome(s) to assess in current year.	The program has a reasonable, multi-year assessment plan that identifies when each outcome will be assessed. The plan may explicitly include analysis and implementation of improvements.	The program has a fully- articulated, sustainable, multi- year assessment plan that describes when and how each outcome will be assessed and how improvements based on findings will be implemented. The plan is routinely examined and revised, as needed.
5.The Student Experience	Students know little or nothing about the overall outcomes of the program. Communication of outcomes to students, e.g., in syllabi or catalog, is spotty or nonexistent.	Students have some knowledge of program outcomes. Communication is occasional and informal, left to individual faculty or advisors.	Students have a good grasp of program outcomes. They may use them to guide their own learning. Outcomes are included in most syllabi and are readily available in the catalog, on the web page, and elsewhere.	Students are well-acquainted with program outcomes and may participate in creation and use of rubrics. They are skilled at self- assessing in relation to the outcome levels of performance. Program policy calls for inclusion of outcomes in all course syllabi, and they are readily available in other program documents.

#### Appendix 4: WSCUC "Rubric for Assessing the Use of Capstone Experiences for Assessing Program Learning Outcomes"

Criterion	Initial	Emerging	Developed	Highly Developed
1. Relevant Outcomes and Lines of Evidence Identified	It is not clear which program outcomes will be assessed in the capstone course.	The relevant outcomes are identified, e.g., ability to integrate knowledge to solve complex problems; however, concrete plans for collecting evidence for each outcome have not been developed.	Relevant outcomes are identified. Concrete plans for collecting evidence for each outcome are agreed upon and used routinely by faculty who staff the capstone course.	Relevant evidence is collected; faculty have agreed on explicit criteria statements, e.g., rubrics, and have identified examples of student performance at varying levels of mastery for each relevant outcome.
2. Valid Results	It is not clear that potentially valid evidence for each relevant outcome is collected and/or individual faculty use idiosyncratic criteria to assess student work or performances.	Faculty have reached general agreement on the types of evidence to be collected for each outcome; they have discussed relevant criteria for assessing each outcome but these are not yet fully defined.	Faculty have agreed on concrete plans for collecting relevant evidence for each outcome. Explicit criteria, e.g., rubrics, have been developed to assess the level of student attainment of each outcome.	Assessment criteria, such as rubrics, have been pilot-tested and refined over time; they usually are shared with students. Feedback from external reviewers has led to refinements in the assessment process, and the department uses external benchmarking data.
3. Reliable Results	Those who review student work are not calibrated to apply assessment criteria in the same way; there are no checks for inter-rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way or faculty routinely check for inter- rater reliability.	Reviewers are calibrated to apply assessment criteria in the same way, and faculty routinely check for inter- rater reliability.	Reviewers are calibrated, and faculty routinely find assessment data have high inter-rater reliability.
4. Results Are Used	Results for each outcome may or may not be are collected. They are not discussed among faculty.	Results for each outcome are collected and may be discussed by the faculty, but results have not been used to improve the program.	Results for each outcome are collected, discussed by faculty, analyzed, and used to improve the program.	Faculty routinely discuss results, plan needed changes, secure necessary resources, and implement changes. They may collaborate with others, such as librarians or Student Affairs professionals, to improve results. Follow-up studies confirm that changes have improved learning.
5. The Student Experience	Students know little or nothing about the purpose of the capstone or outcomes to be assessed. It is just another course or requirement.	Students have some knowledge of the purpose and outcomes of the capstone. Communication is occasional, informal, left to individual faculty or advisors.	Students have a good grasp of purpose and outcomes of the capstone and embrace it as a learning opportunity. Information is readily avail- able in advising guides, etc.	Students are well-acquainted with purpose and outcomes of the capstone and embrace it. They may participate in refining the experience, outcomes, and rubrics. Information is readily available.

#### Appendix 5: WSCUC "Rubric for Assessing the Use of Portfolios for Assessing Program Learning Outcomes"

Criterion	Initial	Emerging	Developed	Highly Developed
1. Clarification of	Instructions to students for	Students receive some written	Students receive written	Students in the program
Students' Task	portfolio development	instructions for their	instructions that describe	understand the portfolio
	provide insufficient detail for	portfolios, but they still have	faculty expectations in detail	requirement and the rationale
	them to know what faculty	problems determining what is	and include the purpose of the	for it, and they view the
	expect. Instructions may not	required of them and/or why	portfolio, types of evidence to	portfolio as helping them
	identify outcomes to be	they are compiling a portfolio.	include, role of the reflective	develop self-assessment
	addressed in the portfolio.		essay (if required), and format	skills. Faculty may monitor
			of the finished product.	the developing portfolio to
			-	provide formative feedback
				and/or advise individual
				students.
2. Valid Results	It is not clear that valid	Appropriate evidence is	Appropriate evidence is	Assessment criteria, e.g., in
	evidence for each relevant	collected for each outcome,	collected for each outcome;	the form of rubrics, have been
	outcome is collected and/or	and faculty have discussed	faculty use explicit criteria,	pilot-tested and refined over
	individual reviewers use	relevant criteria for assessing	such as agreed-upon rubrics,	time; they are shared with
	idiosyncratic criteria to assess	each outcome.	to assess student attainment of	students, and student may
	student work.		each outcome. Rubrics are	have helped develop them.
			usually shared with students.	Feedback from external
			-	reviewers has led to
				refinements in the assessment
				process. The department also
				uses external benchmarking
				data.
3. Reliable Results	Those who review student	Reviewers are calibrated to	Reviewers are calibrated to	Reviewers are calibrated;
	work are not calibrated to	apply assessment criteria in	apply assessment criteria in	faculty routinely find that
	apply assessment criteria in	the same way or faculty	the same way, and faculty	assessment data have high
	the same way, and there are	routinely check for inter-rater	routinely check for inter-rater	inter-rater reliability.
	no checks for inter-rater	reliability.	reliability.	-
	reliability.			
4. Results Are Used	Results for each outcome are	Results for each outcome are	Results for each outcome are	Faculty routinely discuss
	collected, but they are not	collected and discussed by the	collected, discussed by	results, plan needed changes,
	discussed among the faculty.	faculty, but results have not	faculty, and used to improve	secure necessary resources,
		been used to improve the	the program.	and implement changes. They
		program.		may collaborate with others,
				such as librarians or Student
				Affairs professionals, to
				improve student learning.
				Students may also participate
				in discussions and/or receive
				feedback, either individual or
				in the aggregate. Follow-up
				studies confirm that changes
				have improved learning.
5. If e-Portfolios Are	There is no technical support	There is informal or minimal	Formal technical support is	Support is readily available,
Used	for students or faculty to learn	formal support for students	readily available and	proactive, and effective. Tech
	the software or to deal with	and faculty.	proactively assists in learning	support personnel may also
	problems.	-	the software and solving	participate in refining the
			problems.	overall portfolio process.
		l		

#### Appendix 6: WSCUC "Rubric for Assessing the Integration of Student Learning Assessment into Program Reviews"

Criterion	Initial	Emerging	Developed	Highly Developed
1. Required Elements of the Self-Study	Program faculty may be required to provide a list of program-level student learning outcomes.	Faculty are required to provide the program's student learning outcomes and summarize annual assessment findings.	Faculty are required to provide the program's student learning outcomes, annual assessment studies, findings, and resulting changes. They may be required to submit a plan for the next cycle of assessment studies.	Faculty are required to evaluate the program's student learning outcomes, annual assessment findings, bench-marking results, subsequent changes, and evidence concerning the impact of these changes. They present a plan for the next cycle of assessment studies.
2. Process of Review	Internal and external reviewers do not address evidence concerning the quality of student learning in the program other than grades.	Internal and external reviewers address indirect and possibly direct evidence of student learning in the program; they do so at the descriptive level, rather than providing an evaluation.	Internal and external reviewers analyze direct and indirect evidence of student learning in the program and offer evaluative feedback and suggestions for improvement. They have sufficient expertise to evaluate program efforts; departments use the feedback to improve their work.	Well-qualified internal and external reviewers evaluate the program's learning outcomes, assessment plan, evidence, benchmarking results, and assessment impact. They give evaluative feedback and suggestions for improvement. The department uses the feedback to improve student learning.
3. Planning and Budgeting	The campus has not integrated program reviews into planning and budgeting processes.	The campus has attempted to integrate program reviews into planning and budgeting processes, but with limited success.	The campus generally integrates program reviews into planning and budgeting processes, but not through a formal process.	The campus systematically integrates program reviews into planning and budgeting processes, e.g., through negotiating formal action plans with mutually agreed- upon commitments.
4. Annual Feedback on Assessment Efforts	No individual or committee on campus provides feedback to departments on the quality of their outcomes, assessment plans, assessment studies, impact, etc.	An individual or committee occasionally provides feedback on the quality of outcomes, assessment plans, assessment studies, etc.	A well-qualified individual or committee provides annual feedback on the quality of outcomes, assessment plans, assessment studies, etc. Departments use the feedback to improve their work.	A well-qualified individual or committee provides annual feedback on the quality of outcomes, assessment plans, assessment studies, benchmarking results, and assessment impact. Departments effectively use the feedback to improve student learning. Follow-up activities enjoy institutional support
5. The Student Experience	Students are unaware of and uninvolved in program review.	Program review may include focus groups or conversations with students to follow up on results of surveys	The internal and external reviewers examine samples of student work, e.g., sample papers, portfolios and capstone projects. Students may be invited to discuss what they learned and how they learned it.	Students are respected partners in the program review process. They may offer poster sessions on their work, demonstrate how they apply rubrics to self-assess, and/or provide their own evaluative feedback.

#### Appendix 7: WSCUC "Rubric for Evaluating General Education Assessment Process"

Criterion	Initial	Emerging	Developed	Highly Developed
1. GE Outcomes	GE learning	Learning outcomes have	The list of outcomes is a well-	The list of outcomes is reasonable and
	outcomes have not	been developed for the	organized set of reasonable	appropriate. Outcomes describe how
	yet been developed	entire GE program, but list	outcomes that focus on the most	students can demonstrate learning.
	for the entire GE	is problematic (e.g., too	important knowledge, skills, and	Faculty have agreed on explicit
	program; there may	long, too short,	values of the GE program.	criteria, such as rubrics, for assessing
	be one or two	unconnected to mission	Outcomes express learning can	students' mastery and have identified
	common ones (e.g.,	and values). Outcomes do	be demonstrated. Work to define	exemplars of student performance at
	writing, critical	not lend themselves to	levels of performance is	varying levels for each outcome.
	thinking).	demonstrations of student	beginning.	
		learning.		
2. Curriculum	There is no clear	Students appear to have	The curriculum is explicitly	GE curriculum, pedagogy, grading,
Alignment with	relationship between	reasonable opportunities	designed to provide	advising, etc. explicitly aligned with
Outcomes	the outcomes and the	to develop each of the GE	opportunities for students to	GE outcomes. Curriculum map and
	GE curriculum.	outcomes. Curriculum	learn and to develop increasing	rubrics in use well known and
	Students may not	map may indicate	sophistication with respect to	consistently used. Co-curriculum and
	have opportunity to	opportunities to acquire	each outcome. Design may be	relevant student support services are
	develop each	outcomes. Sequencing and	summarized in a curriculum map	also viewed as resources for GE
	outcome adequately.	frequency of opportunities	that shows "beginning,"	learning and aligned with GE
		may be problematic.	"intermediate" and "advanced"	outcomes.
2 A	There is no formal	GE assessment relies on	treatment of outcomes.	
3. Assessment			The campus has a reasonable,	The campus has a fully articulated,
Planning	plan for assessing each GE outcome.	short-term planning, such as selecting which	multi-year assessment plan that identifies when each GE	sustainable, multi-year assessment plan that describes when and how each
	There is no	outcome(s) to assess in the	outcome will be assessed. The	outcome will be assessed. A
	coordinator or	current year. Interpretation	plan includes specific	coordinator or committee leads review
	committee that takes	and use of findings for	mechanisms for interpretation	and revision of the plan, as needed,
	responsibility for the	improvement are implicit	and use of findings for	based on experience and feedback
	program or	rather than planned or	improvement. A coordinator or	from internal & external reviewers.
	implementation of its	funded. There is no	committee is charged to oversee	The campus uses some form of
	assessment plan.	individual or committee	the program and its assessment.	comparative data (e.g., own past
	abbecoment prairi	"in charge."	and program and no appendition	record, aspiration goals, external
		in enarget		benchmarking).
4. Assessment	It is not clear that	Appropriate evidence is	Appropriate evidence is	Assessment criteria, such as rubrics,
Implementation	potentially valid	collected and faculty have	collected and faculty use explicit	have been pilot-tested and refined over
I	evidence for each GE	discussed relevant criteria	criteria, such as rubrics, to	time; and they usually are shared with
	outcome is collected	for assessing each	assess student attainment of each	students. Reviewers of student work
	and/or individual	outcome. Reviewers of	outcome. Reviewers of student	are calibrated, and faculty routinely
	reviewers use	student work are	work are calibrated to apply	find high inter-rater reliability. Faculty
	idiosyncratic criteria	calibrated to apply	assessment criteria in the same	take comparative data into account
	to assess student	assessment criteria in the	way, and faculty routinely check	when interpreting results and deciding
	work.	same way, and/ or faculty	for inter-rater reliability.	on changes to improve learning.
		check for inter-rater		
		reliability.		
5. Use of Results	Results for GE	Results for each GE	Results for each outcome are	Relevant faculty routinely discuss
	outcomes are	outcome are collected and	collected, discussed by relevant	results, plan improvements, secure
	collected, but relevant	discussed by relevant	faculty and others, and regularly	necessary resources, and implement
	faculty do not discuss	faculty; results have been	used to improve the GE	changes. They may collaborate with
	them. There is little or	used occasionally to	program. Students are very	others, such as librarians, student
	no collective use of	improve the GE program.	aware of and engaged in	affairs professionals, students, to
	findings. Students are	Students are vaguely	improvement of their GE	improve the program. Follow-up
	unaware of,	aware of outcomes and	learning.	studies confirm that changes have
	uninvolved in the	assessments to improve		improved learning.
	process.	their learning.		

#### Appendix 8: Sacramento State Baccalaureate Learning Goals for The 21st Century & AAC&U's 16 VALUE Rubrics http://www.csus.edu/wascaccreditation/Documents/Endnotes/E044.pdf

- 1. Competence in the Disciplines: The ability to demonstrate the competencies and values listed below in *at least one major field of study* and to demonstrate informed understandings of other fields, drawing on the knowledge and skills of disciplines outside the major.
- 2. Knowledge of Human Cultures and the Physical and Natural World through study in the *sciences and mathematics, social sciences, humanities, histories, languages, and the arts.* Focused by engagement with big questions, contemporary and enduring.
- **3.** Intellectual and Practical Skills, including: *inquiry and analysis, critical, philosophical, and creative thinking, written and oral communication, quantitative literacy, information literacy, teamwork and problem solving,* practiced extensively, across the curriculum, in the context of progressively more challenging problems, projects, and standards for performance.
  - 3.1 Critical Thinking (WSCUC core competency) 3.2 Information Literacy (WSCUC core competency) 3.3 Written Communication (WSCUC core competency) 3.4 Oral Communication (WSCUC core competency) 3.5 Quantitative Literacy (WSCUC core competency) 3.6 Inquiry and Analysis (Sixth VALUE rubric) 3.7 <u>Creative Thinking</u> (Seventh VALUE rubric) 3.8 Reading (Eighth VALUE rubric) 3.9 Teamwork (Ninth VALUE rubric) 3.10 Problem Solving (Tenth VALUE rubric)
- 4. Personal and Social Responsibility (Values), including: *civic knowledge and engagement—local and global, intercultural knowledge and competence\*, ethical reasoning and action, foundations and skills for lifelong learning* anchored through active involvement with diverse communities and real-world challenges.
  - 4.1 <u>Civic Knowledge and Engagement—Local and Global</u> (Eleventh VALUE rubric)
  - 4.2 Intercultural Knowledge and Competence
  - 4.3 Ethical Reasoning
  - 4.4 Foundations and Skills for Lifelong Learning
  - 4.5 Global Learning

(Eleventh VALUE rubric) (Twelfth VALUE rubric) (Thirteenth VALUE rubric) (Fourteenth VALUE rubric) (Fifteenth VALUE rubric)

5. Integrative Learning\*\*, including: *synthesis and advanced accomplishment* across general and specialized studies.

a. <u>Integrative and Applied Learning</u>

(Sixteenth VALUE rubric)

All of the above are demonstrated through the application of knowledge, skills, and responsibilities (values) to new settings and complex problems.

\*Understanding of and respect for those who are different from oneself and the ability to work collaboratively with those who come from diverse cultural backgrounds.

\*\*Interdisciplinary learning, learning communities, capstone or senior studies in the General Education program and/or in the major connecting learning goals with the content and practices of the educational programs including GE, departmental majors, the co-curriculum and assessments.

#### **Appendix 9: Graduate Learning Goals Policy**

Departments/interdisciplinary groups with graduate programs in their purview shall be required to establish Graduate Goals, Program Learning Outcomes with an associated curriculum map, and an assessment plan with an associated action plan, to be submitted to the Office of Graduate Studies. These documents must be reviewed and, if necessary, updated by May 30 of each academic year.

The Institutional Graduate Learning Goals listed in Section A express a shared, campus-wide articulation of minimum requirements for recipients of graduate degrees. Each graduate program may set Program Learning Goals in addition to the required Institutional Graduate Learning Goals.

#### A. Institutional Graduate Learning Goals

For each Institutional Graduate Learning Goal, students are expected to achieve a level of competency associated with an advanced degree, as appropriate to the discipline.

#### Institutional Graduate Learning Goals for Masters Programs

- 1. **Disciplinary knowledge**: Master, integrate, and apply disciplinary knowledge and skills to current, practical, and important contexts and situations.
- 2. **Communication**: Communicate key knowledge with clarity and purpose both within the discipline and in broader contexts.
- 3. Critical thinking/analysis: Demonstrate the ability to be creative, analytical, and critical thinkers.
- 4. Information literacy: Demonstrate the ability to obtain, assess, and analyze information from a myriad of sources.
- 5. **Professionalism**: Demonstrate an understanding of professional integrity.
- 6. **Intercultural/Global Perspectives**: Demonstrate relevant knowledge and application of intercultural and/or global perspectives.

#### Institutional Graduate Learning Goals for <u>Doctoral</u> Programs

All of the above Institutional Graduate Learning Goals for Masters Programs, with the addition of:

7. **Research**: Conduct independent research resulting in an original contribution to knowledge in the focused areas of their graduate program.

#### **B.** Program Learning Outcomes

Graduate programs shall develop Program Learning Outcomes (PLOs) that represent their unique perspectives and which demonstrate achievement of Graduate Learning Goals. Each graduate program shall define its own set of learning outcomes, specific to the level of study and to the discipline, which are clearly more advanced in content than those defined for related undergraduate work. For some programs, these might already be defined, at least in part, by external accrediting agencies. Such defined outcomes shall also form the basis for assessment plans within graduate programs and offer foci for future academic Program Review teams.

Program Learning Outcomes are designed with the goal of placing graduated master's or doctoral students into postdegree positions in secondary education, non-profits, business and consulting, government and private agencies, and other fields that draw on the knowledge and skills of graduates in the focused areas of their degree preparation.

#### C. Curriculum Map

Each program shall create a curriculum map:

- 1. List all courses, both required and elective, as well as other required graduate education activities.
- 2. Indicate where in the curriculum each PLO is addressed through development of a curriculum map. The curriculum map may be presented in many formats, including tabular form as in the example below:

Curriculum Map						
Coursework	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
GRAD 201 (core course)	Х		Х			
GRAD 202 (core course)				Х		Х
GRAD 203 (core course)		Х		Х		
GRAD 204 (core course)	Х				Х	
GRAD 205 (core course)			Х			
GRAD 206 (core course)	Х	Х	Х	Х		
GRAD 252 (elective)	Х				Х	
GRAD 252 (elective)		Х				Х
GRAD 500 Culminating	X	Х	X	Х	X	х
Experience	Λ	Λ	Λ	Λ	Λ	Λ

#### **D.** Assessment Plan

Each graduate program shall develop a plan for assessing student achievement of its Program Learning Outcomes:

Lines of Evidence

1. Identify graduate program-specific direct and indirect lines of evidence for each of the PLOs. The table below summarizes the kinds of direct and indirect evaluative data programs might draw on to assess PLOs related to two of the Institutional Graduate Learning Goals:

		(Examples for Assessing Graduate Program	Learning Outcomes)
Institutional Graduate Goal	PLO	Direct	Indirect
Disciplinary Knowledge	1. PLO1 2. PLO2 3. PLO3	<ol> <li>Assignments in core courses</li> <li>Completion of culminating experience</li> </ol>	<ol> <li>Mid-course assessments</li> <li>Program exit interview</li> <li>Alumni survey</li> </ol>
Communication	1. PLO1 2. PLO2	<ol> <li>Assignments in content courses</li> <li>Early writing assessment</li> <li>Pre-Candidacy project or examination</li> <li>Presentation at scholarly meetings or in colloquia series</li> <li>Papers/articles/books/grants</li> <li>Thesis or Doctoral dissertation proposal</li> <li>Culminating experience Doctoral dissertation</li> </ol>	<ol> <li>Mid-course assessments</li> <li>Program exit interview</li> <li>Alumni survey</li> </ol>

2. Articulate evaluation parameters for measuring introductory and advanced levels of graduate student development for each PLO.

3. Evaluate each of the PLOs based on direct lines of evidence such as those identified above, collectively supporting the evaluation of introductory and advanced levels of development over the course of each student's program trajectory. Emphasis should be placed on early assessment of indicators that predict success in the graduate experience.

#### E. Action Plan Based on Assessment Data

Based on the assessment data collected, each graduate program shall provide detailed information about ongoing action steps to be taken to maintain and improve program quality and/or address identified deficiencies.

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#### **Appendix 10: The Importance of Action <u>Verbs</u>**

	l in Brown, 1995)
Multiple Interpretations	Fewer Interpretations
<ul> <li>to "know"</li> <li>to "understand"</li> <li>to "really understand"</li> <li>to "appreciate"</li> <li>to "fully appreciate"</li> <li>to "grasp the significance of"</li> <li>to "enjoy"</li> <li>to "believe"</li> <li>to "have faith in"</li> </ul>	<ul> <li>to write-</li> <li>to recite-</li> <li>to identify-</li> <li>to sort-</li> <li>to solve-</li> <li>to construct-</li> <li>to build-</li> <li>to compare-</li> <li>to contrast-</li> </ul>

#### **Appendix 11: Relevant <u>Verbs</u> in Defining Learning Outcomes**

(Based on Bloom's Taxonomy)

Knowledge	Comprehension	Application	Analysis	Synthesis	Evaluation
Cite	Arrange	Apply	Analyze	Arrange	Appraise
Define	Classify	Change	Appraise	Assemble	Assess
Describe	Convert	Compute	Break Down	Categorize	Choose
Identify	Describe	Construct	Calculate	Collect	Compare
Indicate	Defend	Demonstrate	Categorize	Combine	Conclude
Know	Diagram	Discover	Compare	Compile	Contrast
Label	Discuss	Dramatize	Contrast	Compose	Criticize
List	Distinguish	Employ	Criticize	Construct	Decide
Match	Estimate	Illustrate	Debate	Create	Discriminate
Memorize	Explain	Interpret	Determine	Design	Estimate
Name	Extend	Investigate	Diagram	Devise	Evaluate
Outline	Generalize	Manipulate	Differentiate	Explain	Explain
Recall	Give Examples	Modify	Discriminate	Formulate	Grade
Recognize	Infer	Operate	Distinguish	Generate	Interpret
Record	Locate	Organize	Examine	Manage	Judge
Relate	Outline	Practice	Experiment	Modify	Justify
Repeat	Paraphrase	Predict	Identify	Organizer	Measure
Reproduce	Predict	Prepare	Illustrate	Perform	Rate
Select	Report	Produce	Infer	Plan	Relate
State	Restate	Schedule	Inspect	Prepare	Revise
Underline	Review	Shop	Inventory	Produce	Score
	Suggest	Sketch	Outline	Propose	Select
	Summarize	Solve	Question	Rearrange	Summarize
	Translate	Translate	Relate	Reconstruct	Support
		Use	Select	Relate	Value
			Solve	Reorganize	
			Test	Revise	

Page 37: Adapted from Gronlund (1991).

Allen, Mary. 2004. "Assessing Academic Programs in Higher Education". San Francisco, CA: Anker Publishing, Part of Jossey-Bass.

#### Appendix 12A: Example: The VALUE Rubric for the Critical Thinking Skill

Criterion	Capstone = (4)	Milestone = (3)	Milestone = (2)	Benchmark = (1)
6.1: Explanation of issues	Issue/problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.	Issue/problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Issue/problem to be considered critically is stated but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/or backgrounds unknown.	Issue/problem to be considered critically is stated without clarification or description.
<ul> <li>6.2: Evidence Selecting and using information to investigate a point of view or conclusion </li> <li>6.3: Influence of context and assumptions</li> </ul>	Information is taken from source(s) with enough interpretation/evaluation to develop a comprehensive analysis or synthesis. Thoroughly (systematically and methodically) analyzes own and others' assumptions and carefully evaluates the relevance of contexts when presenting a position.	Information is taken from source(s) with enough interpretation/evaluation to develop a coherent analysis or synthesis. Identifies own and others' assumptions and several relevant contexts when presenting a position.	Information is taken from source(s) with some interpretation/evaluation, but not enough to develop a coherent analysis or synthesis. Questions some assumptions. Identifies several relevant contexts when presenting a position. May be more aware of others' assumptions than one's own (or vice versa).	Information is taken from source(s) without any interpretation/evaluation. Viewpoints of experts are taken as fact, without question. Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions).
6.4: Student's position (perspective, thesis/hypothesis)	Specific position (perspective, thesis/hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective, thesis/hypothesis) are acknowledged. Others' points of view are synthesized within position.	Specific position (perspective, thesis/hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	Specific position (perspective, thesis/hypothesis) acknowledges different sides of an issue.	Specific position (perspective, thesis/hypothesis) is stated, but is simplistic and obvious.
6.5: Conclusions and related outcomes (implications and consequences)	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.	Conclusion is logically tied to a range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	Conclusion is logically tied to information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and implications) are identified clearly.	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) are oversimplified.

#### An example of the Program Standard of Performance for the Critical Thinking PLO:

Seventy percent (70%) of our students should achieve a score of **at least 3 in all dimensions** of the above rubric by the time of graduation.

The program standard of performance helps programs identify how *well* students perform within and across the program learning outcome (PLO).

#### Appendix 12B.1: Example: Data Collection Sheet for the Critical Thinking Skill Individual Level

Student A in Tour Frogram						
Different Levels Five Criteria (Areas)	Capstone = (4)	Milestone = (3)	Milestone = (2)	Benchmark = (1)		
6.1: Explanation of Issues	4	3	2	1		
6.2: Evidence	4	3	2	1		
6.3: Influence of Context and Assumptions	4	3	2	1		
6.4: Student's Position	4	3	2	1		
6.5: Conclusions and Related Outcomes	4	3	2	1		

#### **Student A in Your Program**

You can use the rubric to collect data for each student. In this example, Student A achieved a score of 4 for criteria 6.1 and 6.3, a score of 3 for criteria 6.2 and 6.5, and a score of 2 for criterion 6.4.

## Appendix 12B.2: Example: Raw Data Summary for the Critical Thinking Skill for the Program

Program Level

10ul 110gram								
Different Levels Five Criteria (Areas)	Capstone = (4)	Milestone = (3)	Milestone = (2)	Benchmark = (1)	Total (N=130)			
6.1: Explanation of Issues	49	71	0	10	(100%, N=130)			
6.2: Evidence	19	61	31	19	(100%, N=130)			
6.3: Influence of Context and Assumptions	19	61	31	19	(100%, N=130)			
6.4: Student's Position	30	71	10	19	(100%, N=130)			
6.5: Conclusions and Related Outcomes	19	71	21	19	(100%, N=130)			

#### **Your Program**

You can use the rubric to summarize your data of student work. For example, 49 students achieved Capstone 4 for criterion 6.1, and 10 students achieved Milestone 2 for criterion 6.4.

#### Appendix 12B.3: Example: Data Summary for the Critical Thinking Skill for the Program Program Level

Your Program								
Different Levels	Capstone = $(4)$							
		Milestone = (3)	Milestone = (2)	Benchmark = (1)	Total (N=130)			
Five Criteria (Areas)								
6.1: Explanation of Issues	38% (N= 49/130)	54%	0%	8%	(100%, N=130)			
6.2: Evidence	15%	46%	24%	15%	(100%, N=130)			
6.3: Influence of Context and Assumptions	15%	46%	24%	15%	(100%, N=130)			
6.4: Student's Position	23%	54%	8% (N = 10/130)	15%	(100%, N=130)			
6.5: Conclusions and Related Outcomes	15%	54%	16%	15%	(100%, N=130)			

For direct and simple comparison, you can use percentages to summarize your data. For example, **38% of the students** achieved Capstone 4 for criterion 6.1, and **8% of the students** achieved Milestone 2 for criterion 6.4.

## Appendix 12C: Example: Summary for the **Results**, **Discussion, and Conclusions** for the Critical Thinking Skill

Different Levels Five Criteria (Areas)	Capstone = (4)	Milestone = (3)	Milestone = (2)	Benchmark = (1)	Total (N=130)
6.1: Explanation of Issues	38%	54%	0%	8%	(100%, N=130)
6.2: Evidence	15%	46%	24%	15%	(100%, N=130)
6.3: Influence of Context and Assumptions	15%	46%	24%	15%	(100%, N=130)
6.4: Student's Position	23%	54%	8%	15%	(100%, N=130)
6.5: Conclusions and Related Outcomes	15%	54%	16%	15%	(100%, N=130)

We can see (using the above table) that students meet the criteria of 6.1 (92%), 6.4 (77%), and 6.5 (69%) based on the assessment of our selected Critical Thinking PLO and our identified program standard of performance (70% of students should achieve a score of 3 or higher in all dimensions of the Critical Thinking Rubric). Students do not meet the criteria of 6.2 (61%) and 6.3 (61%). **Students meet some of our program standards for the Critical Thinking Skill, thus they "Partially Met Program Standards."** Two areas need improvement: 1) Criterion 6.2: Evidence (61%), and 2) Criterion 6.3: Influence of context and assumptions (61%).

In order to help students in our program successfully become researchers with critical thinking skills, we will design more classroom activities and assignments related to: 1) Re-examination of evidence (6.2) and context and assumptions (6.3) in the research, and 2) Require students to apply these skills as they compose comprehensive responses for all their assignments.

#### Appendix 13: Background Information for Academic Program Assessment and Review

Ideally, academic program assessment and review at Sacramento State should be an ongoing process that facilitates continuous program improvement and includes the following areas<sup>1</sup>:

**Assessment Plan**: Each program needs to develop a program assessment plan which contains the following elements: 1) Program goals and learning outcomes, 2) methods for assessing progress toward these outcomes, and 3) a timetable. This plan should be updated annually or frequently.

Annual Program Assessment Report: Program Learning Outcomes (PLOs) should be directly aligned with Course Learning Outcomes (CLOs) and the University Baccalaureate Learning Goals (UBLGs). Programs are asked to provide the Office of Academic Affairs with an annual report (Annual Assessment Report—AAR) on program assessment activities that occurred during the past academic year. These reports should identify learning goals and outcomes that were targeted for program assessment, measures used to evaluate progress toward those outcomes, data and analysis, and changes made or planned in response to the results. Annual program assessment and the assessment reports provide a solid foundation and data for the six year Program Review at Sacramento State.

**Program Review:** Each department undertakes an extensive Program Review every six years. As part of the Program Review process, departments are asked to use annual program assessment data to evaluate how well students are meeting Program Learning Outcomes and university learning goals.

Thus, each department in our university should have in place a system for collecting and using evidence to improve student learning. So far, not all programs have established Program Learning Outcomes and/or approaches to assess learning for all degree programs; it is essential to make these expectations explicit. This will help departments and colleges to assure that every degree program has or will have in place a quality assurance system for assessing and tracking student learning, so that they may use this information to improve their respective programs. Importantly, departments should also present learning expectations, data, findings, and analysis in a way that is easy to understand and/or to use by the faculty, students, administration, the general public, accreditation agencies, and policy-makers.

<sup>&</sup>lt;sup>1</sup> Adapted from the information at <u>http://webapps2.csus.edu/assessment/</u>

#### Appendix 14: WASC Senior College and University Commission (WSCUC) GLOSSARY

(https://www.wascsenior.org/content/wasc-glossary)

A glossary of terms used in this report and by WSCUC accreditation is provided below. As WSCUC points in its most updated Handbook of Accreditation:

"Many of these terms have multiple meanings and/or have been used in different ways by different associations, institutions, and individuals. The definitions that follow represent the way WSCUC typically uses these words for purposes of institutional review and reporting. If local usage differs significantly from the definitions below, the institutions should consider translating its terms for accreditation purposes to avoid misunderstanding on the part of the evaluation term, WSCUC staff, and others" (WSCUC Handbook of Accreditation 2012:39)."

To avoid misunderstanding by WSCUC and confusion at Sacramento State, Office of Academic Program Assessment has decided to use the same definitions from the WSCUC 2013 Handbook of Accreditation Glossary (linked above.)

- AAC&U (Association of American Colleges and University) Washington-based national organization dedicated to promotion of liberal learning and its integration with professional and civic education.
- Accountability in higher education, being answerable to the public, e.g., students, parents, policymakers, employers. Historically, accountability has focused on financial resources; emphasis now extends to students' academic progress, including retention, acquisition of knowledge and skills, and degree completion.
- Alignment connections among functions or dimensions of an institution that support achievement of goals, e.g., among curriculum, pedagogy, and expected outcomes; or priorities, planning, and resource allocation.
- **Assessment** (of student learning) an ongoing, iterative process consisting of four basic steps: 1. defining learning outcomes; 2. choosing a method or approach and then using it to gather evidence of learning; 3. analyzing and interpreting the evidence; and 4. using this information to improve student learning.
- **Benchmark** a point of reference or standard of excellence in relation to which something can be compared and judged. A specific level of student performance may serve as the benchmark that students are expected to meet at a particular point in time or developmental level. Retention and graduation rates may also be benchmarked against those of peer institutions or national norms.
- **Capstone** a culminating project or experience, usually associated with undergraduates but also applicable to graduate education, that generally takes place in the student's final year of study and requires review, synthesis, and application of what has been learned over the course of the student's college experience. The result may be a product (e.g., original research, an innovative engineering design, an art exhibit) or a performance (e.g., a recital, an internship, student teaching). The capstone can provide evidence for assessment of a range of outcomes, e.g., core competencies, general education outcomes, and institution-level outcomes, as well as those for the major or graduate degree.
- **Closing the Loop** refers to the four-step assessment cycle (see "assessment of student learning") and the need to complete the cycle in order to improve learning. "Completing the cycle" may be understood as 1. Completing step 4; or 2. Completing step 4 and then repeating the cycle to see whether the changes implemented have produced the desired result.
- **Co-curricular Learning** learning that takes place in activities and programs that are not part of the prescribed sequence of courses in an academic program.

- **Competency** in assessment of student learning, a specific skill, body of knowledge, or disposition; can also refer to the student's ability to demonstrate that learning. "Competency" is sometimes used interchangeably with "outcome," "objective," and "ability."
- **Criterion-Referenced** testing or assessment in which student performance is judged in relation to pre-established standards and not in relation to the performance of other students.
- **Culture of Evidence** a habit of using evidence in assessment, decision making, planning, resource allocation, and other institutional processes that is embedded in and characteristic of an institution's actions and practices.
- **Curriculum Map** a visual representation, usually in the form of a table or matrix, which shows the alignment of course outcomes with Program Learning Outcomes. Well-crafted curriculum maps also show development of proficiency levels, for example using terminology such as "beginning," "intermediate," and "advanced" or "introduced," "developed," and "mastered."
- **Degree Qualifications Profile** (DQP) a framework funded by the Lumina Foundation that describes the kinds of learning and levels of performance that may be expected of students who have earned an associate, baccalaureate, or master's degree.
- **Direct Method** in assessment of student learning, a way of gathering evidence of learning directly, e.g., through scoring of actual student work or performances, rather than indirectly, e.g., through self-reports, surveys, etc. Direct evidence can be supplemented by indirect evidence and descriptive data.
- **External Validation** corroboration or confirmation through an outside source. External validation has two dimensions: 1. data from external sources may be used to confirm that something has been accurately judged and documented; and 2. external reviewers may be invited to examine the evidence. External validation can bring fresh perspectives and lend credibility. See also "external evaluator."
- **Formative Assessment** assessment intended to provide feedback and support for improved performance as part of an ongoing learning process, whether at the student, program, or institution level. See also "summative assessment."
- **Goal** 1. In assessment of student learning, a high-level, very general statement of learning expected of graduates, aligned with the institution's mission, vision, and values (more specific learning outcomes are derived from goals); 2. A statement developed by an institution or program related to strategic planning, financial development, and other important issues.
- **High-Impact Practice** (HIP): HIPs include first-year seminars, common intellectual experiences, learning communities, writing-intensive courses, collaborative assignments, undergraduate research, diversity/global learning, service learning, internships, and capstone courses or projects. Research suggests that if students experience one or more HIPS in the course of their studies, they are more likely to persist, achieve higher levels of learning, and complete their degrees.
- **Indirect Method** in assessment of student learning, a way to capture evidence of learning in the form of opinions—for example, of students, employers, and alumni—by means of surveys, focus groups, exit interviews, etc. Indirect evidence is mediated by personal perceptions and experiences, and learning can only be inferred. Indirect evidence may be supplemented by descriptive data.
- Liberal Education and America's Promise (LEAP) a project of AAC&U, the LEAP outcomes (also known as Essential Learning Outcomes) total 12, grouped under the headings "Knowledge of Human Cultures and the Natural and Physical World," "Intellectual and Practical Skills," "Personal and Social Responsibility," and "Integrative and Applied Learning."

- **Mission** in higher education, an institution's formally adopted statement of its fundamental reasons for existence, its shared purposes and values, and the students that it aims to serve. The mission is central to decisions about priorities and strategic objectives and provides a context for WSCUC decisions about quality and accreditation.
- **Norming** 1. In assessment of student learning, a process of training raters to evaluate student products and performances consistently, typically using criterion-referenced standards and rubrics; 2. In accreditation, can be applied to other reviewing and rating processes, e.g., institutional evaluation, Commission actions.
- **Norm-Referenced** testing or assessment in which student performance is judged in relation to the performance of a larger group of students, not measured against a pre-established standard.
- OAPA Office of Academic Program Assessment at Sacramento State, located in Library 67.
- **Objective** in assessment of student learning, a concise statement of what the instructor (or program or institution) intends a student to learn (on some campuses, objectives then lead to development of learning outcomes); 2. Sometimes used interchangeably with "outcome," but "outcome" has become the more common usage because of its more direct focus on the result (or "outcome") for the student; 3. In institution- or program-level planning, more specific statements derived from general goals; 4. In psychometrics, a test consisting of factual questions requiring short answers that can be reliably scored using an answer key, minimizing subjective judgments.
- **Outcome** in assessment of student learning, a concise statement of what the student should know or be able to do. Wellarticulated learning outcomes describe how a student can demonstrate the desired outcome; verbs such as "understand" or "appreciate" are avoided in favor of observable actions, e.g., "identify," "analyze." Learning outcomes can be formulated for different levels of aggregation and analysis. Student learning outcomes are commonly abbreviated as SLOs, course learning outcomes as CLOs, Program Learning Outcomes as PLOs, and institution-level outcomes as ILOs. 2. Other outcomes may address access, retention and graduation, and other indicators aligned with institutional mission and goals.
- **Persistence** like "retention," refers to the rate at which students return to college from semester to semester and year to year, or "persist" in their education. Some educators interpret "retention" as putting the responsibility for degree completion on the institution, whereas "persistence" puts the responsibility on the student.
- **Planning** (Assessment) the development of a design by which an institution sets goals and objectives and identifies the means to measure their accomplishment. *Institutional* planning may address educational programs, support services, the physical plant, budgets and finances, and other aspects of institutional operation and future development.
- **Portfolio** in assessment of student learning, a method of collecting student work so that the evidence can be reviewed in relation to specific learning outcomes. Most student portfolios also include a reflection on the learning process. Portfolios are highly adaptable: they may be developmental (showing progress from rough draft to finished product) or cumulative (i.e., students' "best work"); and they may be assembled at the level of the individual student, program, or institution.
- **Program** 1. a systematic, usually sequential, grouping of courses that forms a considerable part, or all, of the requirements for a degree in a major or professional field; 2. sometimes refers to the total educational offering of an institution.
- **Program Review** a systematic process of examining the capacity, processes, and outcomes of a degree program or department in order to judge its quality and effectiveness and to support improvement. Historically, Program Review focused primarily on capacity and research output; more recently, educational outcomes and student success have been included. While student success and assessment of learning at the program level are an important part of Program Review, they should not be confused with the more encompassing process of Program Review.

- **Reliability** in psychometrics and assessment of student learning, the consistency and dependability of judgments and measurements. See also "validity."
- **Retention** typically refers to the rate at which students return and re-enroll in college from semester to semester and year to year; retention rates from first to second year are of particular interest, since that is when the heaviest attrition is likely to occur.
- **Rigor** in education, refers both to a challenging curriculum and to the consistency or stringency with which high standards for student learning and performance are upheld.
- **Rubric** a tool for scoring student work or performances, typically in the form of a table or matrix, with criteria that describe the dimensions of the outcome down the left-hand vertical axis, and levels of performance across the horizontal axis. The work or performance may be given an overall score (holistic scoring), or criteria may be scored individually (analytic scoring). Rubrics are also used to communicate expectations to students. 2. WSCUC has developed a number of rubrics to assist teams and institutions in evaluating various aspects of their curriculum and assessment processes.
- **Signature Assignment** an embedded assessment method using an assignment—either the identical assignment or multiple assignments all constructed according to a common template— across multiple courses or sections of courses. A sample of students' work products is then examined using a rubric to arrive at judgments about the quality of student learning across the course, program, or institution. Alternatively, a signature question may be embedded, for example, in final exams.
- Standard broadly refers to statements of expectations for student learning, which may include content standards, performance standards, and benchmarks. In the K-12 arena, standards generally describe content, but not level of mastery. In higher education, in contrast, standards generally refer to expected levels of mastery or proficiency. Not to be confused with standards of accreditation.
- **Standard of Performance** the degree of skill or proficiency with which a student demonstrates a learning outcome. WSCUC Standard 2, CFR 2.2a, requires institutions to report on their students' levels of performance at or near the time of graduation in five core competencies: writing, oral communication, quantitative reasoning, critical thinking, and information literacy. Standards of performance are set by faculty and other educators on campus.
- **Standardized** a good practice meaning that a protocol or set of guidelines is consistently followed. For example, individuals may be trained in using scoring rubrics or conducting focus groups such that their activities are "standardized" to support the collection of reliable data. Commercially available tests are often referred to as "standardized tests," and "standardized" has acquired negative connotations in some circles.
- **Standards of Accreditation** standards of accreditation are the principles used as a basis for judgment in accreditation reviews. WSCUC has four Standards that flow from three Core Commitments. They are used to guide institutions in assessing institutional performance, to identify areas needing improvement, and to serve as the basis for judgment of the institution by evaluation teams and the Senior College Commission.
- **Student Success** a phrase often used as shorthand for retention and degree completion. For WSCUC, student success includes quality of learning and rigor as well as retention and completion.
- **Student-Centeredness** 1) a shift in perspective from teaching and inputs (e.g., assignments) to desired outcomes and what students actually learn; 2) an approach that places the student (the learner) at the center of the educational process by providing more curricular flexibility, more accessible services, a supportive campus climate, and so on.
- Summative Assessment 1. assessment that occurs at the conclusion or end point of a course, program, or college experience to determine whether student learning outcomes have been achieved; 2. applied organizationally, the

use of certain methods to evaluate the overall effectiveness of a program, an institution, or some element of the course of study. See also "formative assessment."

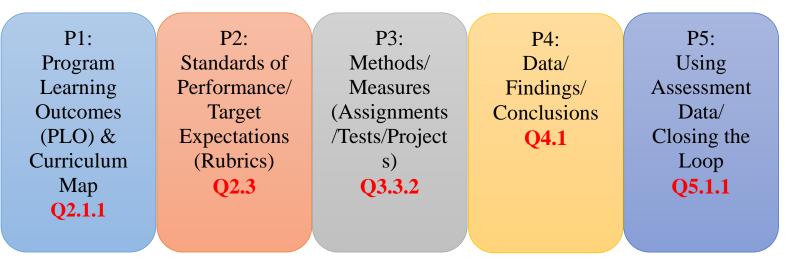
- **Sustainability** ability of an educational institution to maintain effective functioning and improve over the long term. Assumes financial viability, but also availability of human capital and other resources, as well as vision, planning, and flexibility.
- **Triangulation** the use of multiple methods to generate more robust evidence and to see whether results converge or diverge.
- Validity in psychometrics and assessment of student learning, refers to how well a particular assessment method actually measures what it is intended to measure. Considerations include construct validity, content validity, and face validity. May also refer to consequences, i.e., whether an assessment has "consequential validity" and will support subsequent actions to improve learning. See also "reliability."
- VALUE rubrics Valid Assessment of Learning in Undergraduate Education (VALUE); a set of fifteen rubrics developed by AAC&U in collaboration with hundreds of faculty to assess learning outcomes defined by the LEAP project. Institutions may download the rubrics at no cost and are encouraged to modify them to suit local needs.
- **Value-added** 1. in higher education, the contribution that institutions make to their students' learning and development, documented from students' entry to exit; 2. a WSCUC value, namely to promote an accreditation process that adds value to institutions and helps them to achieve their own goals.

WASC - See WSCUC.

WSCUC (formerly WASC) - "Western Association of Schools and Colleges" The three Commissions under the WSCUC umbrella: [1] the Accrediting Commission for Schools (ACS); [2] the Accrediting Commission for Community and Junior Colleges (ACCJC); and [3] the Accrediting Commission for Senior Colleges and Universities (ACSCU), also referred to as the Senior College Commission. In the context of the 2013 Handbook, WSCUC refers to the Senior College Commission.

#### **Appendix 15: Examples for Answering Open-Ended Questions**

How to Answer the Open-Ended Assessment Questions



**Question 1 (Q1): Program Learning Outcomes (**Q1-Q1.6)

**Questions from 2017-18 Annual Assessment Report Template:** 

Q2.1.1. Explain what the PLO/competency means in your program using action verbs (Appendix IV, V, and <u>XI):</u>

#### **Critical Thinking VALUE Rubric**

#### Definition

Critical thinking is a habit of mind characterized by the comprehensive exploration of issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion.

#### Framing Language

This rubric is designed to be transdisciplinary, reflecting the recognition that success in all disciplines requires habits of inquiry and analysis that share common attributes. Further, research suggests that successful critical thinkers from all disciplines increasingly need to be able to apply those habits in various and changing situations encountered in all walks of life.

This rubric is designed for use with many different types of assignments and the suggestions here are not an exhaustive list of possibilities. Critical thinking can be demonstrated in assignments that require students to complete analyses of text, data, or issues. Assignments that cut across presentation mode might be especially useful in some fields. If insight into the process components of critical thinking (e.g., how information sources were evaluated regardless of whether they were included in the product) is important, assignments focused on student reflection might be especially illuminating.

#### Glossary

The definitions that follow were developed to clarify terms and concepts used in this rubric **only**.

- Ambiguity: Information that may be interpreted in more than one way.
- Assumptions: Ideas, conditions, or beliefs (often implicit or unstated) that are "taken for granted or accepted as true without proof." (quoted from www.dictionary.reference.com/browse/assumptions)
- Context: The historical, ethical, political, cultural, environmental, or circumstantial settings or conditions that influence and complicate the consideration of any issues, ideas, artifacts, and events.
- Literal meaning: Interpretation of information exactly as stated. For example, "she was green with envy" would be interpreted to mean that her skin was green.
- Metaphor: Information that is (intended to be) interpreted in a non-literal way. For example, "she was green with envy" is intended to convey an intensity of emotion, not a skin color.

## Critical Thinking VALUE Rubric

Criterion	Exceed Standards 4	Meet Standards 3	Meet Minimum Standards 2	Don't Meet Standards 1
issues	described comprehensively, delivering all relevant information	considered critically is stated, described, and clarified so that	Issue or problem to be considered critically is stated but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/or backgrounds unknown.	Issue or problem to be considered critically is stated without clarification or description.
(Selecting and using information to investigate a point of	source(s) with enough interpretation or evaluation to develop a comprehensive analysis	Information is taken from source(s) with enough interpretation or evaluation to develop a coherent analysis or synthesis.	Information is taken from source(s) with some interpretation or evaluation, but not enough to develop a coherent analysis or synthesis.	Information is taken from source(s) without any interpretation or evaluation. Viewpoints of experts are taken as fact, without question.
	methodically) analyzes own and others' assumptions and carefully	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Questions some assumptions. Identifies several relevant contexts when presenting a position. May be more aware of others' assumptions than one's own (or vice versa).	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions).
(Perspective, thesis/ hypothesis)	thesis or hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective,	Specific position (perspective, thesis or hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	thesis or hypothesis) acknowledges different sides	Specific position (perspective, thesis or hypothesis) is stated, but is simplistic and obvious.

6.5: Conclusions and	Conclusions and related outcomes	Conclusion is logically tied to a	Conclusion is logically tied to	Conclusion is
related outcomes	(consequences and implications)	range of information, including	information (because	inconsistently tied to some
(Implications and	are logical and reflect students'	opposing viewpoints; related	information is chosen to fit the	of the information
consequences)	informed evaluation and ability to	outcomes (consequences and	desired conclusion); some	discussed; related
	place evidence and perspectives	implications) are identified	related outcomes	outcomes (consequences
	discussed in priority order.	clearly.	(consequences and	and implications) are
			implications) are identified	oversimplified.
			clearly.	

Q2: <u>Standards of Performance/Expectations</u>: Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate from the four semester program.)

#### Question 1 (Q1): Program Learning Outcomes (Q1-Q1.6)

#### Answers to<mark>Q2.1.1</mark>:

6: Graduate students from iMET will demonstrate a habit of systematically exploring issues, ideas, artifacts, and events before accepting or formulating an opinion or conclusion. They will (PLO 6: Critical thinking adopted from the VALUE rubric):

6.1: Clearly state the issue/problem that needs to be considered critically, comprehensively describe the issue/problem, and deliver all relevant information so it is necessary for a full understanding of the issue/problem (Explanation of issues);

6.2: Thoroughly interpret and evaluate the information taken from source(s) to develop a comprehensive analysis or synthesis (Evidence);

6.3: Thoroughly analyze their own and others' assumptions and carefully evaluate the relevance of contexts when presenting a position (Influence of context and assumptions);

6.4: *Consider* the complexities (all sides) of an issue. Limits of position and others' points of view are acknowledged and synthesized within position (Student's position including perspective, thesis/hypothesis);

6.5: *Form* conclusions, consequences and implications that are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in order of priority (Conclusions and related outcomes).

#### **Question 2 (Q2): Standards of Performance/Expectations/Rubrics**

#### **Questions from 2017-18 Annual Assessment Report Template:**

**Q2.3.** <u>Please provide and/or attach **the rubric(s)** that you used to develop your assignment (See Appendix 15 Sample Answer to Q2.3):</u>

#### Answers to Q2.3:

Q2: <u>Standards of Performance/Expectations</u>:

Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate).

Criterion	Exceed Standards 4	Meet Standards 3	Meet Minimum Standards 2	Don't Meet Standards 1
issues	described comprehensively, delivering all relevant information	considered critically is stated, described, and clarified so that	considered critically is stated but description leaves some	Issue or problem to be considered critically is stated without clarification or description.
information to investigate a point of	source(s) with enough interpretation or evaluation to develop a comprehensive analysis		source(s) with some interpretation or evaluation, but not enough to develop a coherent analysis or synthesis.	Information is taken from source(s) without any interpretation or evaluation. Viewpoints of experts are taken as fact, without question.
context and assumptions	methodically) analyzes own and others' assumptions and carefully	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Identifies several relevant contexts when presenting a position. May be more aware	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions).
(Perspective, thesis/ hypothesis)	thesis or hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective,	Specific position (perspective, thesis or hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	thesis or hypothesis) acknowledges different sides	Specific position (perspective, thesis or hypothesis) is stated, but is simplistic and obvious.

related outcomes (Implications and consequences)	are logical and reflect students' informed evaluation and ability to place evidence and perspectives	range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) are oversimplified.

Q2: <u>Standards of Performance/Expectations</u>: Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate from the four semester program.)

# Question 3 (Q3): Direct Measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess the program learning outcomes.

#### **Questions from 2017-18 Annual Assessment Report Template:**

# Q3.3.2. <u>Please attach the assignment instructions that the students received to complete the assignment (See Appendix 1 Sample Answer to Q3.3.2):</u>

**Q3.3.1.** Which of the following direct measures (key assignments, projects, portfolios, course work, student tests, etc.) were used? [Check all that apply]

- 1. Capstone projects (including theses, senior theses), courses, or experiences
- 2. Key assignments from required classes in the program
- 3. Key assignments from elective classes
- 4. Classroom based performance assessments such as simulations, comprehensive exams, critiques
- 5. External performance assessments such as internships or other community based projects
- 6. *E-Portfolios*
- 7. Other portfolios
- 8. Other measure. Specify:

## Question 3 (Q3): Direct Measures (key assignments, projects, portfolios, course work, student tests, etc.) used to assess the program learning outcomes.

#### Answers to Q3.3.2:

**The key assignment** for the iMET program assessment is the **Action Research Report.** iMET used this **Action Research Report** (Master's Thesis) included in an ePortfolio as its direct measure to assess its critical thinking program learning outcome.

#### This culminating experience report (the master thesis) includes the following tasks:

1. Designing and implementing a study using data collection tools that will allow the students to "show" the reader what happened during and as a result of the intervention.

2. Sorting through the findings after collecting the data, looking for data that reveal some information pertinent to the study.

3. Looking for relationships (patterns) between the data. These patterns emerge from a variety of sources such as things that have happened, things that students have observed, things that people have said, and things that students have measured. These are the findings (conclusions) of the study.

#### **Question 4 (Q4): Data, Findings, and Conclusions:**

#### **Questions from the 2017-18 Annual Assessment Report Template:**

**Q4.1.** <u>Please provide tables and/or graphs to summarize the assessment data, findings, and conclusions for the</u> <u>selected PLO in **Q2.1** (see Appendix 12 in our Feedback Packet Example). Please do **NOT** include student <u>names and other confidential information. This is going to be a **PUBLIC** document.</u></u>

Q4.3. For the selected PLO, the student performance:
1. Exceeded expectations/standards
2. Met expectations/standards

Partially met expectations/standards
 Did not meet expectations/standards
 No expectations or standards have been specified

6. Don't know

### Answer to Q4.1: Q4.1. A Simple Result Table for iMET

Five Criteria/outcomes	Exceed Standards (4)	Meet Standards (3)	Meet Minimum Standards (2)	Don't Meet Standards (1)	Total (N=13)
6.1: Explanation of issues	38% (n=5)	54% (n=7)	0% (n=0)	8% (n=1)	(100%, N=13)
6.2: Evidence (Selecting and using information to investigate a point of view or conclusion)	15% (n=2)	40% (n=6)	21% (n=3)	15% (n=2)	(100%, N=13)
6.3: Influence of context and assumptions	15% (n=2)	41% (n=6)	20% (n=3)	15% (n=2)	(100%, N=13)
6.4: Student's position (perspective, thesis/ hypothesis)	23% (n=3)	54% (n=7)	8% (n=1)	15% (n=2)	(100%, N=13)
6.5: Conclusions and related outcomes (Implications and consequences)	15% (n=2)	55% (n=7)	15% (n=2)	15% (n=2)	(100%, N=13)

### Data Collection Sheet for Each Program

Criterion	Exceed Standards 4	Meet Standards 3	Meet Minimum Standards 2	Don't Meet Standards 1
6.1: Explanation of issues		considered critically is stated, described, and clarified so that	considered critically is stated but description leaves some terms undefined, ambiguities	Issue or problem to be considered critically is stated without clarification or description.
(Selecting and using information to investigate a point of	Information is taken from source(s) with enough interpretation or evaluation to develop a comprehensive analysis or synthesis.	Information is taken from source(s) with enough interpretation or evaluation to develop a coherent analysis or synthesis.	source(s) with some interpretation or evaluation, but not enough to develop a coherent analysis or synthesis.	Information is taken from source(s) without any interpretation or evaluation. Viewpoints of experts are taken as fact, without question.
context and assumptions	methodically) analyzes own and others' assumptions and carefully	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Identifies several relevant contexts when presenting a position. May be more aware	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions).
(perspective, thesis/ hypothesis)	thesis or hypothesis) is imaginative, taking into account the complexities of an issue.	Specific position (perspective, thesis or hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	thesis or hypothesis) acknowledges different sides	Specific position (perspective, thesis or hypothesis) is stated, but is simplistic and obvious.

6.5: Conclusions and	Conclusions and related outcomes	Conclusion is logically tied to a	Conclusion is logically tied to	Conclusion is
	(consequences and implications)	<b>č i</b>	<b>.</b>	inconsistently tied to
(Implications and	are logical and reflect students'	opposing viewpoints; related	information is chosen to fit the	some of the information
consequences)	informed evaluation and ability to	outcomes (consequences and	desired conclusion); some	discussed; related
_	place evidence and perspectives	implications) are identified	related outcomes	outcomes (consequences
	discussed in priority order.	clearly.	(consequences and	and implications) are
			implications) are identified	oversimplified.
			clearly.	

Q2: <u>Standards of Performance/Expectations</u>: Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate from the four semester program.)

### How to Answer Q4.1, Q4.2, and Q4.3 for the Program

Five Criteria/Outcomes	Standards	Standards	Standards	Total (N=13)	
6.1: Explanation of issues	38% (n=5)	54% (n=7)	8% (n=1)	(100%, N=13)	6.1: 38 + 54 = <b>92%</b> achieving 3.0 or higher.
<b>6.2: Evidence (Selecting and using information to investigate a point of view or conclusion)</b>		40% (n=6)	15% (n=2)	(100%, N=13)	6.2: $15 + 40 = 55\%$ not achieving 3.0 or higher.
6.3: Influence of context and assumptions			15% (n=2)	(100%, N=13)	6.3: $15 + 41 = 56\%$ not achieving 3.0 or higher.
6.4: Student's position (perspective, thesis/ hypothesis)	23% (n=3)	54% (n=7)	15% (n=2)	(100%, N=13)	6.4: 23 + 54 = <b>77%</b> achieving 3.0 or higher.
6.5: Conclusions and related outcomes (Implications and consequences)	15% (n=2)	55% (n=7)	15% (n=2)	(100%, N=13)	6.5: 15 + 55 = <b>70%</b> achieving 3.0 or higher.

#### **Question 4 (Q4): Data, Findings, and Conclusions:**

Q2: <u>Standards of Performance/Expectations</u>: Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate from the four semester program.)

Summary conclusion for Q4.2

Students <u>meet</u> the following standards 6.1 (92%), 6.4 (77%) and 6.5 (69%).

Students <u>do not meet</u> the following standards 6.2 (61%) and 6.3 (61%).

The two areas needing improvement: 6.2: Evidence (61%) 6.3: Influence of context and assumptions (61%).

Student Performance (Q4.3): 3. Partially meet the standards

## Data Collection Sheet for Each Student

Criterion	Exceed Standards 4	Meet Standards 3	Meet Minimum Standards 2	Don't Meet Standards 1
issues	Issue or problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.	Issue or problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	considered critically is stated but description leaves some	Issue or problem to be considered critically is stated without clarification or description.
(Selecting and using information to investigate a point of	Information is taken from source(s) with enough interpretation or evaluation to develop a comprehensive analysis or synthesis.	Information is taken from source(s) with enough interpretation or evaluation to develop a coherent analysis or synthesis.	source(s) with some interpretation or evaluation, but not enough to develop a coherent analysis or synthesis.	Information is taken from source(s) without any interpretation or evaluation. Viewpoints of experts are taken as fact, without question.
context and assumptions	methodically) analyzes own and others' assumptions and carefully	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Identifies several relevant contexts when presenting a position. May be more aware	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions).
(perspective, thesis/ hypothesis)	Specific position (perspective, thesis or hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective, thesis/hypothesis) are acknowledged. Others' points of view are synthesized within position.	Specific position (perspective, thesis or hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/hypothesis).	thesis or hypothesis) acknowledges different sides	Specific position (perspective, thesis or hypothesis) is stated, but is simplistic and obvious.

6.5: Conclusions and	Conclusions and related outcomes	Conclusion is logically tied to a	Conclusion is logically tied to	Conclusion is
				inconsistently tied to some
(Implications and	are logical and reflect students'	opposing viewpoints; related	information is chosen to fit the	of the information
consequences)	informed evaluation and ability to	outcomes (consequences and	desired conclusion); some	discussed; related
	place evidence and perspectives	implications) are identified	related outcomes	outcomes (consequences
	discussed in priority order.	clearly.	(consequences and	and implications) are
			implications) are identified	oversimplified.
			clearly.	

Q2: <u>Standards of Performance/Expectations</u>: Seventy percent (70%) of our students will score 3.0 or above in all the five dimensions of the VALUE rubric (by the time they graduate from the four semester program.)

**Question 4 (Q4): An example of a Data Collection Sheet for Each Student/Assignment** 

Reference: Your data tables are based on the rubric and the data collection sheet.
The moment your rubric is developed, you also have a data collection sheet!
The following table is an example of a data collection sheet for a student:

Criterion	Capstone 4	Milestone 3	Milestone 2	Benchmark 1
6.1: Explanation of issues	4	3	2	1
6.2: Evidence (Selecting and using information to investigate a point of view or conclusion)	4	3	2	1
6.3: Influence of context and assumptions	4	3	2	1
6.4: Student's position (perspective, thesis/ hypothesis)	4	3	2	1
6.5: Conclusions and related outcomes (Implications and consequences)	4	3	2	1

#### **Question 4 (Q4): Data, Findings, and Conclusions:**

#### Answer for Q4.2:

We can see (using the above table) that students meet the criteria for 6.1 (92%), 6.4 (77%), and 6.5 (69%) based on the assessment of our selected Critical Thinking PLO and our identified program standards of performance (70% of students should achieve a score of 3 or higher in all dimensions of the Critical Thinking Rubric). Students do not meet the criteria of 6.2 (61%) and 6.3 (61%). Students meet some of our program standards for the Critical Thinking Skill, thus they "Partially Met Program Standards." Two areas need improvement: 1) Criterion 6.2: Evidence (61%), and 2) Criterion 6.3: Influence of context and assumptions (61%).

#### **Question 5.1.1: Use of Assessment Data**

#### **Questions from 2017-18 Annual Assessment Report Template:**

**Q5.1.1.** <u>Please describe what changes you plan to make in your program as a result of your assessment of this</u> PLO. Include a description of how you plan to assess the impact of these changes.

#### Answer to Q5.1.1:

In order to help students in our program successfully become critical thinking researchers, we will design more classroom activities and assignments related to: 1) Re-examination of evidence (6.2) and context and assumptions (6.3) in the research, and 2) Require students to apply these skills as they compose comprehensive responses for all their assignments.

## **Question 5.2: Use of Assessment Data**

Q5.2. To what extent did you apply previous assessment results collected through your program in the					
following areas? [Check all that apply]	(1) Very Much	(2) Quite a Bit	(3) Some	(4) Not at all	(8) N/A
1. Improved specific courses	X				
2. Modified curriculum		X			
3. Improved advising and mentoring		X			
4. Revised learning outcomes/goals			X		
5. Revised rubrics and/or expectations				X	
6. Developed/updated assessment plan	X				
7. Annual assessment reports			X		
8. Program review		X			
9. Prospective student and family information				X	
10. Alumni communication				X	
11. WASC accreditation (regional accreditation)	X				
12. Program accreditation			x		
13. External accountability reporting requirement		X			
14. Trustee/Governing Board deliberations				x	
15. Strategic planning	X				
16. Institutional benchmarking	X				
17. Academic policy development or modification		X			
18. Institutional Improvement			X		
19. Resource allocation and budgeting				X	
20. New faculty hiring	X				
21. Professional development for faculty and staff					X
22. Recruitment of new students					X
23. Other Specify:					