Assessment Data Mathematical, Information and Computer Sciences Computer Information Technology (ADC)

Learning Outcome:

PLO: Students will be able to write about their work with precision, clarity and organization (Written Communication).

GELO 1a: Written: Students will be able to effectively express ideas and information to others through written communication.

Outcome Measure:

Annual: Each student will be required to write a paper on a topic in their field as a part of their participation in the Senior Seminar. The audience for this talk will include department faculty, fellow students and possibly some alumni. The students will be given the evaluation criteria in advance of their presentation and will be rated by the faculty using a rubric with a scale of 4 (outstanding) to 1 (unsatisfactory) in the following areas:

- Structure
- Organization
- Grammar and spelling
- Depth of information
- Clarity of writing
- Bibliography and other supporting documentation

Annual: ETS Proficiency Profile.

Criteria for Success: 70% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric.

ETS: 60% of our students will be marginal or proficient on the Level 2 Writing test.

Aligned with DQP Learning Areas (circle one or more):

- 1. Specialized Knowledge
- 2. Broad Integrative Knowledge
- 3. Intellectual Skills/Core Competencies
- 4. Applied and Collaborative Learning, and
- 5. Civic and Global Learning

Longitudinal Data:

Writing Report	2017-18	2018-19	2019-20
Structure	100%	100%	100%
Organization	83%	100%	100%
Grammar and Spelling	100%	100%	100%
Depth of Information	100%	100%	100%
Clarity of Writing	100%	100%	100%
Bibliography and support	100%	100%	100%

ETS:

	Percentage of Students Marginal or Proficient					
	2017-18 2018-19 2019-20					
ETS Proficiency Profile Level 2 Writing	20%	39%	27%			

Conclusions Drawn from Data:

We now have a few years of data and are looking carefully at the discrepancies. The students have done well on the department rubric but not well on the ETS test. We are reviewing the material on the ETS exam.

Changes to be Made Based on Data:

No changes at this time, we are monitoring progress and reviewing the instruments.

Rubrics:

MICS Writing Rubric: Next page

ETS: No rubric

MICS Written Presentation Rubric

Criteria	Outstanding	High Satisfactory	Low Satisfactory	Unsatisfactory
phy and ig	Multiple references from distinct reputable sources	Most references from distinct reputable sources	Some references from reputable sources	No bibliography or all references from untrusted sites on the internet
Bibliography s supporting documents	References cited in the body of the document	Some citation of references in the body of the document	Limited citation of references in the body of the document	No citation of references in the body of the document
	Conveys a central theme with all ideas connected, arrangement of ideas clearly related to topic	Conveys a central idea or topic with some ideas connected to the topic	Attempts to focus on an idea or topic with many ideas not connected to the topic	Has little or no focus on central idea or topic
uc	Clear introduction, body (with sections), and conclusion includes summary and closure	Includes introduction, body and conclusion	Introduction, body, conclusion detectable but not clear	Introduction, body or conclusion absent
Organization	Includes both an abstract and table of contents	Includes abstract and table of contents (one partial and one complete)	Includes partial abstract and partial table of contents	No abstract or table of contents
	No use of first- person tense	Few uses of the first-person tense	Several uses of the first- person tense	Written in first-person tense
Grammar and spelling	No grammatical or spelling errors	Few grammatical and spelling errors	Some grammatical and spelling errors	Many grammatical and spelling errors
u	Appropriately synthesizes information from multiple distinct sources	Synthesis of information from at least three distinct sources	Synthesis of information from at least two distinct sources	Summary reporting of information without synthesis
Depth of information	Draws conclusions and personal insights from synthesis	At least two personal insights or conclusions stated	At least one personal insight or conclusion stated	No personal insights
Depth of	Has the minimum number of pages including penalty pages; subject coverage is excellent	Has the minimum number of pages including penalty pages; subject coverage is good	Has the minimum number of pages including penalty pages; subject coverage is adequate	Does not have the minimum number of pages including penalty pages
	Sentences flow	Good sentence structure	Occasional poor sentence structure	Frequent poor sentence structure
	Smooth transitions between paragraphs	Adequate transitions between paragraphs	Transitions between paragraphs unclear	Lacked transitions between paragraphs
Clarity of writing	Any and all terms and acronyms are defined	Most terms and acronyms are defined	Some terms and acronyms are defined	Many terms and acronyms are undefined
Clarity	Provides evidence to support points	Lacks support for some points	Provides minimal support for points	Ideas not supported

Assessment Data Mathematical, Information and Computer Sciences Computer Information Technology

Learning Outcome:

PLO: Students will be able to speak about their work with precision, clarity and organization (Oral Communication).

GELO 1b: Oral: Students will be able to effectively express ideas and information to others through oral communication.

Outcome Measure: Annual: Each student will be required to give an oral presentation on a topic in their field as a part of their participation in the Senior Seminar (CIT481). The audience for this talk will include department faculty, fellow students and possibly some alumni. The students will be given the evaluation criteria in advance of their presentation and will be rated by the faculty using a rubric with a scale of 4 (outstanding) to 1 (unsatisfactory) in the following areas:

- Command of background material
- Organization
- Oral presentation skills
- Use of presentation tools
- Ability to field questions from the audience

Criteria for Success: 80% of the students should have an average score of at least 2.5 in each of the major areas in the department rubric.

Aligned with DQP Learning Areas (circle one or more):

- 1. Specialized Knowledge
- 2. Broad Integrative Knowledge
- 3. Intellectual Skills/Core Competencies
- 4. Applied and Collaborative Learning, and
- 5. Civic and Global Learning

Longitudinal Data:

Oral Presentation	2017-18	2018-19	2019-20
Background	100%	100%	97%
Organization	100%	100%	100%
Oral Presentation Skills	100%	100%	100%
Presentation Tools	100%	100%	100%
Ability to Field Questions	100%	100%	100%

Conclusions Drawn from Data:

Our cohorts are consistently meeting the benchmark. This is not surprising since we have students give oral presentations in most classes.

Changes to be Made Based on Data:

We noticed that the students did not fully understand all categories in the rubric and additional time will be spent reviewing the rubric with them before they prepare their oral presentations

Oral Presentation Rubric Update (4/12/17)

Criteria		Outstanding	High Satisfactory	Low Satisfactory	Unsatisfactory
		Clearly knows material and key facts by memory	Clearly knows key facts with a few memory slips	Reads some information; knows some facts from memory	Reads sentences from slides
Command of background material		Expands on PPT slides	Some expansion on PPT slides	No expansion of PPT slide content	Dependent on notes
Command background material		Content appropriate for audience	Partial audience adaptation of content	Little audience adaptation of content	Lacks audience adaptation of content
		Clear and concise outline	Clear outline	Some sense of outline	No clear outline
Organization		Relevant graphics and key text items on slides	Too much information on slides (not concise)	Too much detailed information on slides	Slides are in paragraphed; too much detailed information on one slide
Orgar	-	Presentation is between 10-15 minutes	Presentation 1 minute outside of the range (10-15 minutes)	Presentation 2 minutes outside of the range (10-15 minutes)	Presentation 3 minutes outside of the range (10-15 minutes)
		Clearly has practiced several times; smooth transitions	Has practiced but transitions are not smooth	Has practiced presentation but cannot verbally make transitions between slides	Clearly did not practice presentation; Does not anticipate content of next slide
		Engages audience in content multiple time and engagement is well connected to talk (questions, examples, etc)	Engages audience at least twice in content (questions, examples, etc.)	Audience engagement at least once with content (questions, examples, etc.)	No audience involvement
_ω		Free of disfluencies (ah, uhm)	A few disfluencies (ah, umh, er)	Many disfluencies (ah, umh, er)	Disfluencies (ah, umh, er) detract from presentation
ation skills		Is clearly heard in the room and makes an uses inflection for emphasis	Can be understood most of the time and uses some inflection	Can sometimes be understood and uses little inflection	Can not be heard and/or speaks in a monotone
Presentation		Engaged audience through eye contact	Some engagement of audience through eye contact	Infrequent eye contact	Little audience awareness or eye contact
Oral F		Engaged audience through gestures	Some engagement of audience through gestures	Distracting gestures or mannerisms	Frequent distracting gestures or mannerisms
tion		PPT background is matched to content, legible font, seamless transitions	Appropriate PPT slide backgrounds, transitions & font	Distracting PPT slide backgrounds and transitions, font hard to read	No attention given to PPT slide backgrounds and transitions, font illegible
Use of Presentation Tools		Graphics imbedded and matched to topic, necessary hyperlinks work	Most graphics imbedded and matched to topic, most necessary hyperlinks work	Some inappropriate graphics or use of PPT embellishments, necessary hyperlinks don't work	Distracting use of embellishments, graphics not connected to topic
Ability to field questions		Able to answer questions clearly and without hesitation and prepared material to answer anticipated questions	Can answer all questions with some hesitation	Able to answer half of the questions with hesitation	Unable to answer any questions

Assessment Data Mathematical, Information and Computer Sciences Computer Information Technology (ADC)

Learning Outcome:

PLO: Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).

GELO 1c: Information Literacy: Students will be able to access and cite information as well as evaluate the logic, validity, and relevance of information from a variety of sources.

Outcome Measure: Annual: Each student will be required to write a paper on a topic in their field as a part of their participation in the Senior Seminar. The audience for this talk will include department faculty, fellow students and possibly some alumni. The students will be given the evaluation criteria in advance and their paper will be rated by the faculty using a rubric with a scale of 4 (capstone) to 1 (benchmark) in the following areas:

- References: Multiple references from distinct reputable sources
- Citation: References cited in the body of the document
- Synthesis: Appropriately synthesizes information from multiple distinct sources.

Criteria for Success: 80% of the students should have an average score of at least 2.5 in each of the major areas.

Aligned with DQP Learning Areas (circle one or more):

- 1. Specialized Knowledge
- 2. Broad Integrative Knowledge
- 3. Intellectual Skills/Core Competencies
- 4. Applied and Collaborative Learning, and
- 5. Civic and Global Learning

Longitudinal Data:

Information Literacy	2017-18	2018-19	2019-20
References	100%	100%	100%
Citation	100%	100%	100%
Synthesis	100%	100%	100%

Conclusions Drawn from Data:

This is the first cohort of graduates in the program and they seem to have done well.

Changes to be Made Based on Data:

Continue to monitor the progress.

Rubric

We used the applicable parts of the writing rubric.

MICS Written Presentation Rubric

Criteria	Outstanding	High Satisfactory	Low Satisfactory	Unsatisfactory
ohy and g ts	Multiple references from distinct reputable sources	Most references from distinct reputable sources	Some references from reputable sources	No bibliography or all references from untrusted sites on the internet
Bibliography and supporting documents	References cited in the body of the document	Some citation of references in the body of the document	Limited citation of references in the body of the document	No citation of references in the body of the document
	Conveys a central theme with all ideas connected, arrangement of ideas clearly related to topic	Conveys a central idea or topic with some ideas connected to the topic	Attempts to focus on an idea or topic with many ideas not connected to the topic	Has little or no focus on central idea or topic
uo	Clear introduction, body (with sections), and conclusion includes summary and closure	Includes introduction, body and conclusion	Introduction, body, conclusion detectable but not clear	Introduction, body or conclusion absent
Organization	Includes both an abstract and table of contents	Includes abstract and table of contents (one partial and one complete)	Includes partial abstract and partial table of contents	No abstract or table of contents
and .	No use of first- person tense	Few uses of the first-person tense	Several uses of the first- person tense	Written in first-person tense
Grammar and spelling	No grammatical or spelling errors	Few grammatical and spelling errors	Some grammatical and spelling errors	Many grammatical and spelling errors
	Appropriately synthesizes information from multiple distinct sources	Synthesis of information from at least three distinct sources	Synthesis of information from at least two distinct sources	Summary reporting of information without synthesis
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	Sentences flow	Good sentence structure	Occasional poor sentence structure	Frequent poor sentence structure
	Smooth transitions between paragraphs	Adequate transitions between paragraphs	Transitions between paragraphs unclear	Lacked transitions between paragraphs
Clarity of writing	Any and all terms and acronyms are defined	Most terms and acronyms are defined	Some terms and acronyms are defined	Many terms and acronyms are undefined
Clarit	Provides evidence to support points	Lacks support for some points	Provides minimal support for points	Ideas not supported

Assessment Data Mathematical, Information and Computer Sciences Computer Information Technology (ADC)

Learning Outcome:

PLO: Students will be able to gather relevant information, examine information and form a conclusion based on that information (Critical Thinking).

GELO 1d: Critical Thinking: Students will be able to examine, critique and synthesize information in order to arrive at reasoned conclusions.

Outcome Measure:

ETS Proficiency Profile

Criteria for Success:

70% of the students will be marginal or proficient at Level 2 Reading/Critical Thinking.

Aligned with DQP Learning Areas (circle one or more):

- 1. Specialized Knowledge
- 2. Broad Integrative Knowledge
- 3. Intellectual Skills/Core Competencies
- 4. Applied and Collaborative Learning, and
- 5. Civic and Global Learning

Longitudinal Data:

	Percentage of Students Marginal or Proficient					
	2017-18 2018-19 2019-20					
ETS Proficiency Profile Level 2 Critical Thinking	60%	52%	60%			

Conclusions Drawn from Data:

The students are close but missing the target. The department will be looking at the specific skills measured by the test and see if there are locations where the curriculum can be strengthened to reinforce these skills.

Changes to be Made Based on Data:

None at this time.

Rubric:

ETS provides the scores.

Assessment Data Mathematical, Information and Computer Sciences Computer Information Technology (ADC)

Learning Outcome:

PLO: Students will be able to understand and create arguments supported by quantitative evidence, and they can clearly communicate those arguments in a variety of formats (Quantitative Reasoning).

GELO 1e: Quantitative Reasoning: Students will be able to solve problems that are quantitative in nature.

Outcome Measure: Annual: Each student will participate in the ETS Proficiency Profile exam.

Criteria for Success: 70% of the students will be Marginal or Proficient at Level 2.

Aligned with DQP Learning Areas (circle one or more):

- 1. Specialized Knowledge
- 2. Broad Integrative Knowledge
- 3. Intellectual Skills/Core Competencies
- 4. Applied and Collaborative Learning, and
- 5. Civic and Global Learning

Longitudinal Data:

	Percentage of Students Marginal or Proficient					
	2017-18 2018-19 2019-20					
ETS Proficiency Profile Level 2 Math	60%	39%	53%			

Conclusions Drawn from Data:

The program has now graduated several cohorts so it is possible to being to look at longitudinal data. We are looking at the particular skills measured by this exam to see what skills need to be reinforced and to determine if this benchmark is appropriate for the CIT student population, particularly since PLNU does not provide their mathematical education. These students transfer in their mathematics coursework.

Changes to be Made Based on Data:

None at this time. We will continue to monitor the results.

Rubrics

ETS Proficiency Profile (no rubric involved)