

## Degree Program Student Learning Report (rev. 7/14)

Fall 2013 – Spring 2014

The Department of Applied Technology in the School of Business & Technology

# Applied Technology, A.A.S.

Effectively assessing a degree program should address a number of factors:

- 1) Valid student learning outcomes should be clearly articulated;
- 2) Valid assessment measures should be used, consistent with the standards of professional practice;
- 3) There should be evidence that assessment data are being used by faculty to make necessary instructional or assessment changes; and there should be evidence that instructional or assessment changes are being implemented to improve student learning.

### PART 1 (A & B)

#### Relationship of Degree Program Learning Outcomes to Departmental and University Missions

A. Clearly state the school, department and degree program missions.

University Mission	School Mission	Department Mission	Degree Program Mission
Our mission is to ensure students develop the skills and knowledge required to achieve professional and personal goals in dynamic local and global communities.	The mission of the School of Business and Technology is to prepare students to compete and perform successfully in diverse careers in business, technology, sport management, and related fields by providing a quality	The mission of the Department of Applied Technology is to support the School of Business and Technology and RSU in their mission to prepare students to achieve professional and personal goals in dynamic local and global	To provide students with a quality education in a technology area by emphasizing a combination of general education courses and a selection of courses in a technical specialty. The program develops a knowledge base through core

University Mission	School Mission	Department Mission	Degree Program Mission
	<p>academic experience. Undergraduate programs and their respective curricula will remain responsive to social, economic, and technical developments.</p>	<p>communities. Specifically, the organizational structure of the Department of Technology provides the technology course support for the Associate in Science and Associate in Applied Science degrees, as well as the Bachelor of Science in Business Information Technology, the Bachelor of Science in Game Development, and the Bachelor of Technology in Applied Technology. As indicated, many of the programs offered by the Department of Applied Technology are available online.</p>	<p>courses and selected electives while advancing a general view of technology.</p>

**B.** Clearly state school purposes, department purposes and degree program student learning outcomes. Align student learning outcomes with their appropriate school and department purposes, and these outcomes and purposes with their appropriate university commitments.

University Commitments	School Purposes	Department Purposes	Student Learning Outcomes
<p>To provide quality associate, baccalaureate, and graduate degree opportunities and educational experiences which foster student excellence in oral and written communications, scientific reasoning and critical and creative thinking.</p>	<p>The SBT provides this support by offering two-year and four-year educational opportunities in business, sport management, and technology.</p>	<p>To provide the technology course support for the AS in Computer Science and AAS in Applied Technology degrees as well as BS in Business Information Technology, BS in Game Development, and BT in Applied Technology.</p>	<ol style="list-style-type: none"> <li>1. Students will demonstrate proficiency in the use of currently standard computing tools such as internet browsers, email, word processors, spreadsheets, database management tools, and presentation software.</li> <li>2. Students will demonstrate knowledge in the field of microeconomics.</li> </ol>

University Commitments	School Purposes	Department Purposes	Student Learning Outcomes
			<p>3. Students will demonstrate a basic knowledge in the field of financial Accounting.</p> <p>4. Students will demonstrate an understanding of management principles.</p>
<p>To promote an atmosphere of academic and intellectual freedom and respect for diverse expression in an environment of physical safety that is supportive of teaching and learning.</p>			
<p>To provide a general liberal arts education that supports specialized academic program and prepares students for lifelong learning and service in a diverse society.</p>			
<p>To provide students with a diverse, innovative faculty dedicated to excellence in teaching, scholarly pursuits and continuous improvement of programs.</p>			
<p>To provide university-wide student services, activities and resources that complement academic programs.</p>			
<p>To support and strengthen student, faculty and administrative structures that promote shared governance of the institution.</p>			
<p>To promote and encourage student, faculty, staff and community interaction in a positive academic climate that creates</p>			

University Commitments	School Purposes	Department Purposes	Student Learning Outcomes
opportunities for cultural, intellectual and personal enrichment for the University and the communities it serves.			

**PART 2**

**Discussion of Instructional Changes Resulting from 2012-2013 Degree Program Student Learning Report**

List and discuss all instructional or assessment changes proposed in Part 5 of last year’s Degree Program Student Learning Report, whether implemented or not. Any other changes or assessment activities from last year, but not mentioned in last year’s report, should be discussed here as well. Emphasis should be placed on student learning and considerations such as course improvements, the assessment process, and the budget. If no changes were planned or implemented, simply state “No changes were planned or implemented.”

Instructional or Assessment Changes	Changes Implemented (Y/N)	Impact of Changes on Degree Program Curriculum or Budget
No changes		

**PART 3**

**Discussion About the University Assessment Committee’s 2012-2013 Peer Review Report**

The University Assessment Committee in its Degree Program Peer Review Report provided feedback and recommendations for improvement in assessment. List or accurately summarize all feedback and recommendations from the committee, and state whether they were implemented or will be implemented at a future date. If they were not or will not be implemented, please explain why. If no changes were recommended last year, simply state "No changes were recommended."

<b>Feedback and Recommended Changes from the University Assessment Committee</b>	<b>Suggestions Implemented (Y/N)</b>	<b>Changes that Were or Will Be Implemented, or Rationale for Changes that Were Not Implemented</b>
4B) There seems to be an over-reliance on pre and post-tests. Please note that this measure does not establish whether students have met an acceptable standard of achievement.	N	The Business Department is phasing out pre-and post test measures. At this point we have not decided how we replace SLO #2, 3, and 4. The changes will be reported in Part 2 of the next year's report.
4F) Outcomes 2-4 fell short of providing a clear and meaningful overview of results. Distribution data would be helpful to see the number of students who fell short of the threshold.	N	Neither breakdown nor distribution of scores was available. The assessment measures will be changed in 2014-2015 academic year as stated above.
4G) A breakdown of results regarding outcomes 2 to 4 would have enabled us to tailor your conclusions to students who failed to meet the performance standards.	N	Same as above.
6) No	Y	Microcomputer Applications instructors regularly meet and discuss curriculum, teaching methods, computer system problems, etc. All Microcomputer Applications sections use standardized syllabi, exams and homework assignments developed among the full-time faculty.
7) So far, there are no in-direct measures used.	N	We have not come up with suitable indirect measures for this program. We may develop a student satisfaction survey.

#### PART 4

#### Analysis of Evidence of Student Learning Outcomes

For all student learning outcomes (as listed in Part 1 B above), describe the assessment measures and performance standards used, as well as the sampling methods and sample sizes. For each measure, document the results of the activity measured and draw relevant conclusions related to strengths and weaknesses of their performance.

A. Student Learning Outcomes	B. Assessment Measures	C. Performance Standards	D. Sampling Methods	E. Sample Size (N)	F. Results	G. Conclusions	H. Performance Standards Met (Y/N)
1. Students will demonstrate proficiency in the use of currently standard computing tools such as internet browsers, email, word processors, spreadsheets, database management tools, and presentation software.	A standardized final exam developed by the MASH (Microcomputer Applications Stakeholders) to assess the skill level of Microsoft Office 2012.	At least seventy percent of the AAS AT majors enrolled in CS 1113 Microcomputer Applications will successfully complete CS 1113 Microcomputer Applications with a score of 78% or better on the standardized final exam.	All AASAT majors who took the Microcomputer Applications course in the fall 2013 and the spring 2014	15	<p>The breakdown of the number of students for each category (A – F), for the in-class, online, and blended classes final test scores follows:</p> <p>Ten in-class students:            2 A's (90-100%)            6 B's (80-89%):            0 C's (70-79%)            2 D's (60-69%)            0 F's (Below 60%)</p> <p>Four online class students            2 A's (90-100%)            1 B (80-89%): 1            0 C's (70-79%)            1 D (60-69%)            0 F's (Below 60%)</p> <p>One blended class student:            1 C (70-79%)</p> <p>80% (12 out of 15 students) met the standard, satisfying the computer proficiency requirement.</p>	Students demonstrated proficiency in the use of email, Internet, word processing, spreadsheet, and presentation software. We have tutors available within the SBT for students needing extra help.	Y
2. Students will demonstrate knowledge in the field of economics	A pre-test and post-test will be administered in ECON 2123 Principles of	Students will improve posttest scores over pretest scores by at least 20% in	All students taking ECON 2123	88	Pre-test average score was 46.2 and the post-test average score was 73.4: improvement of 58.8%	Pre-test and post-test show no indication of course deficiencies.	Y

A. Student Learning Outcomes	B. Assessment Measures	C. Performance Standards	D. Sampling Methods	E. Sample Size (N)	F. Results	G. Conclusions	H. Performance Standards Met (Y/N)
	Microeconomics.	ECON 2123 Principles of Micro Economics.					
3. Students will demonstrate a basic knowledge in the field of financial accounting.	A pre-test and post-test will be administered in ACCT 2103 Accounting I-Financial.	Students will improve posttest scores over pretest scores by at least 20% in ACCT 2103 Accounting I – Financial	All students taking ACCT 2103	67	Pre-test average score was 54.3 and the post-test average score was 87.0 improvement of 60.2%	Pre-test and post-test show no indication of course deficiencies.	Y
4. Students will demonstrate an understanding of management principles	A pre-test and post-test will be given in MGMT 3013.	70% of students will improve post-test scores over pre-test scores by at least 20% or will score at least 80% level on the pre-test.	All students taking MGMT 3013.	85	Pre-test average score was 52.4 and the post-test average score was 82.0: improvement of 56.5%	Pre-test and post-test show no indication of course deficiencies.	Y

**PART 5**

**Proposed Instructional Changes Based on Conclusions Drawn from Evidence Presented Above**

State any proposed instructional or assessment changes to be implemented for the next academic year. They should be based on conclusions reported in Part 4 (above) or on informal activities, such as faculty meetings and discussions, conferences, pilot projects, textbook adoption, new course proposals, curriculum modifications, etc. Explain the rationale for these changes and how they will impact student learning and other considerations, such as curriculum, degree plan, assessment process, or budget. If no changes are planned, simply state “No changes are planned.”

Student Learning Outcomes	Instructional or Assessment Changes	Rationale for Changes	Impact of Planned Changes on Student Learning and Other Considerations.
No notable examples.			

**PART 6**

**Shared Pedagogical Insight that Improves Student Learning or Classroom Engagement**

(OPTIONAL) If your department or a faculty member has developed a method or technique of teaching that seems especially effective in improving student learning or student engagement in the classroom, please provide a brief description below. More detail can be communicated during the face to face peer review session.

Description
No notable examples

**PART 7 (A & B)**

**Assessment Measures and Faculty Participation**

**A. Assessment Measures:**



- 1) How many different assessment measures were used? 2
- 2) List the direct measures (see rubric): Standardized Final Exam, Pre- and Post-Test
- 3) List the indirect measures (see rubric): none

**B.**

- 1) Provide the names and signatures of all faculty members who contributed to this report and indicate their respective roles:

<b>Faculty Members</b>	<b>Roles in the Assessment Process</b> (e.g., collect data, analyze data, prepare report, review report, etc.)	<b>Signatures</b>
Roy Gardner	Prepare report	On separate sheet
Tetyana Kyrylova	Collect, analyze data for CS 1113	On separate sheet
Thomas Luscomb	Collect, analyze data for CS 1113	On separate sheet
Peter Macpherson	Review report	On separate sheet
Curtis Sparling	Collect, analyze data for CS 1113	On separate sheet
Bert Tollison	Provided data for ECON 2123, ACCT 2103, MGMT 3013	On separate sheet

- 2) Reviewed by:

<b>Titles</b>	<b>Names</b>	<b>Signatures</b>	<b>Date</b>
Department Head	Roy Gardner	On separate sheet	9/19/2014
Dean	Bruce Garrison	On separate sheet	9/19/2014

## RUBRIC FOR STUDENT LEARNING STUDENT LEARNING REPORT

**1) A. Are the school, department and program missions clearly stated?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
The program, department, and school missions are clearly stated.	The program, department, and school missions are stated, yet exhibit some deficiency (e.g., are partial or brief).	The program, department, and school missions are incomplete and exhibit some deficiency (e.g., are partial or brief).	The program, department, and school missions are not stated.

**B. Are student learning outcomes and department purposes aligned with university commitments and school purposes?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
Student learning outcomes and department purposes are aligned with university commitments and school purposes.	Student learning outcomes and department purposes demonstrate some alignment with university commitments and school purposes.	Student learning outcomes and department purposes demonstrate limited alignment with university commitment and school purposes.	Student learning outcomes and department purposes do not demonstrate alignment with university commitment and school purposes.

**2) How well did the department incorporate instructional or assessment changes from last year's report or from other assessment activities?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
All planned changes were listed, whether they were implemented or	Most planned changes were listed, and their status or impact on	Some planned changes were listed, and their status or impact on	No planned changes were listed, and their status or impact on

not, and their impact on curriculum or program budget was discussed thoroughly.	curriculum or program budget was discussed.	curriculum or program budget was not clearly discussed.	curriculum or program budget was not discussed.
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**3) Did the department include peer review feedback and provide rationale for implementing or not implementing suggestions?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
All reviewer feedback was listed, and for each suggestion a clear rationale was given for its being implemented or not.	Most reviewer feedback was listed, and for most suggestions a rationale was given for their being implemented or not.	Some reviewer feedback was listed, and for some suggestions a rationale was given for their being implemented or not.	Feedback from reviewers was not included.

**4) A. Are the student learning outcomes listed and measurable?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
All student learning outcomes are listed and measurable in student behavioral action verbs (e.g., Bloom's Taxonomy).	Most student learning outcomes are listed and measurable in student behavioral action verbs (e.g., Bloom's Taxonomy).	Some student learning outcomes are listed and measurable in student behavioral action verbs (e.g., Bloom's Taxonomy).	Student learning outcomes are either not listed or not measurable.

**B. Are the assessment measures appropriate for the student learning outcomes?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
All assessment measures are appropriate to the student learning outcomes.	Most assessment measures are appropriate to the student learning outcomes.	Some assessment measures are appropriate to the student learning outcomes.	None of the assessment measures are appropriate to the student learning outcomes.

**C. Do the performance standards provide a clearly defined threshold at an acceptable level of student performance?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
All performance standards provide a clearly defined threshold at an acceptable level of student performance.	Most performance standards provide a clearly defined threshold at an acceptable level of student performance.	Some of the performance standards provide a clearly defined threshold at an acceptable level of student performance.	No performance standards provide a clearly defined threshold at an acceptable level of student performance.

**D. Is the sampling method appropriate for all assessment measures?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
The sampling methodology is appropriate for all assessment measures.	The sampling methodology is appropriate for most assessment measures.	The sampling methodology is appropriate for some assessment measures.	The sampling methodology is appropriate for none of the assessment measures.

**E. Is the sample size listed for each assessment measure?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
Sample size was listed for all assessment measures.	Sample size was listed for most assessment measures.	Sample size was listed for some assessment measures.	Sample size was not listed for any assessment measures.

**F. How well do the data provide clear and meaningful overview of the results?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
For all student learning outcomes the results were clear, more than a single year's results were included, and meaningful information was given that reveals an overview of student performance.	For most student learning outcomes the results were clear, more than a single year's results were included, and meaningful information was given that reveals an overview of student performance.	For some student learning outcomes the results were clear, more than a single year's results were included, and meaningful information was given that reveals an overview of student performance.	For none of the student learning outcomes were the results clear, more than a single year's results were included, and meaningful information was given that reveals an overview of student performance.

**G. Are the conclusions reasonably drawn and significantly related to student learning outcomes?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
All conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.	Most conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.	Some conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.	No conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.

**H. Does the report indicate whether the performance standards were met?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
Stated for all performance	Stated for most performance	Stated for some performance	Not stated for any performance

standards.	standards.	standards.	standard.
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**5) How well supported is the rationale for making assessment or instructional changes? The justification can be based on conclusions reported in Part 4 or on informal activities, such as faculty meetings and discussions, conferences, pilot projects, textbook adoption, new course proposals, curriculum modifications, etc. Explain the rationale for these changes and how they will impact student learning and other considerations, such as curriculum degree plan, assessment process, or budget.**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
All planned changes are specifically focused on student learning and based on the conclusions. The rationale for planned changes is well grounded and convincingly explained.	Most planned changes are specifically focused on student learning and based on the conclusions. The rationale for planned changes is mostly well grounded and convincingly explained.	Some planned changes are specifically focused on student learning and based on the conclusions. The rationale for planned changes is lacking or is not convincingly explained.	No planned changes are specifically focused on student learning and based on the conclusions. There is no rationale.

**6) Did the faculty include at least one teaching technique they believe improves student learning or student engagement in the classroom?**

<b>Yes</b>	<b>No</b>		
The faculty has included at least one teaching technique they believe improves student learning or student engagement in the classroom.	The faculty has not included any teaching techniques they believe improve student learning or student engagement in the classroom.		

**7) A. How well did the faculty vary the assessment measures?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
Assessment measures vary and include multiple direct measures and at least one indirect measure. The number of measures is consistent with those listed.	Assessment measures vary, but they are all direct. The number of measures is consistent with those listed.	Assessment measures do not vary or are all indirect. There is some inconsistency in the number of measures recorded and the total listed.	Assessment measures are not all listed or are listed in the wrong category. The total number of measures is not consistent with those listed.

**B. Does the list of faculty participants clearly describe their role in the assessment process?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
The faculty role is clearly identified and it is apparent that the majority of the faculty participated in the process. The roles are varied.	The faculty role is identified and it is apparent that the majority of the faculty participated in the process. The roles are not varied.	The faculty roles are not identified. Few faculty participated.	The faculty roles are not identified. Faculty participation is not sufficiently described to make a determination about who participated.

**EXPLANATION & EXAMPLES OF DIRECT AND INDIRECT EVIDENCE**

**DIRECT EVIDENCE of student learning is tangible, visible, self-explanatory evidence of exactly what students have and haven't learned. Examples include:**

- 1) Ratings of student skills by their field experience supervisors.
- 2) Scores and pass rates on licensure/certification exams or other published tests (e.g. Major Field Tests) that assess key learning outcomes.
- 3) Capstone experiences such as research projects, presentations, oral defenses, exhibitions, or performances that are scored using a rubric.
- 4) Written work or performances scored using a rubric.
- 5) Portfolios of student work.
- 6) Scores on locally-designed tests such as final examinations in key courses, qualifying examinations, and comprehensive examinations that are accompanied by test blueprints describing what the tests assess.
- 7) Score gains between entry and exit on published or local tests or writing samples.
- 8) Employer ratings of the skills of recent graduates.
- 9) Summaries and analyses of electronic class discussion threads.
- 10) Student reflections on their values, attitudes, and beliefs, if developing those are intended outcomes of the program.

**INDIRECT EVIDENCE provides signs that students are probably learning, but the evidence of exactly what they are learning is less clear and less convincing. Examples include:**

- 1) Course grades.
- 2) Assignment grades, if not accompanied by a rubric or scoring guide.
- 3) For four year programs, admission rates into graduate programs and graduation rates from those programs.
- 4) For two year programs, admission rates into four-year institutions and graduation rates from those programs.
- 5) Placement rates of graduates into appropriate career positions and starting salaries.

- 6) Alumni perceptions of their career responsibilities and satisfaction.
- 7) Student ratings of their knowledge and skills and reflections on what they have learning over the course of the program.
- 8) Those questions on end-of-course student evaluations forms that ask about the course rather than the instructor.
- 9) Student/alumni satisfaction with their learning, collected through surveys, exit interviews, or focus groups
- 10) Honors, awards, and scholarships earned by students and alumni.

Suskie, L. (2004). *Assessing Student Learning: A Common Sense Guide*. Anker Publishing Company: Bolton, MA

B.

1) Provide the names and signatures of all faculty members who contributed to this report and indicate their respective roles:

Faculty Members	Roles in the Assessment Process (e.g., collect data, analyze data, prepare report, review report, etc.)	Signatures
Roy Gardner	Reviewed, prepared reports	<i>Roy Gardner</i>
Tetyana Kyrylova	Data collection, analysis of CS 1113	<i>Tetyana Kyrylova</i>
Cliff Layton	Data collection, analysis of IT 2153, CS 3413	Retired not available
Thomas Luscomb	Data collection, analysis of CS 1113	<i>Tom Luscomb</i>
Peter Macpherson	Data collection, analysis of CS 3733, CS 3363, CS4504, prepared GD report. Reviewed reports	<i>Peter Macpherson</i>
Curtis Sparling	Data collection, analysis of CS 1113, TECH 4504, IT 4504. Administered CS MFT	<i>Curtis Sparling</i>

2) Reviewed by:

Titles	Names	Signatures	Date
Department Head	Roy Gardner	<i>Roy Gardner</i>	9/19/2014
Dean	Bruce Garrison	<i>Bruce Garrison</i>	9/19/14