

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

Fall 2015 – Spring 2016

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

# Computer Science, 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 the necessary skills required to become competent in computer programming at the entry level, as well as to understand the significant issues of how technology is changing the

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>workplace; and to provide students with the academic background to seek a baccalaureate degree in Computer Science, Computer Information Systems, or Information 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 competence in analyzing problems, designing, and implementing programs to solve the problems using computer programming languages.</li> <li>2. Students will integrate the design, implementation and administration of computer networks.</li> </ol>

University Commitments	School Purposes	Department Purposes	Student Learning Outcomes
			3. Students will demonstrate proficiency in the use of currently standard computing tools such as internet browsers, email, word processors, spreadsheet, and presentation software.
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.			
To provide a general liberal arts education that supports specialized academic program and prepares students for lifelong learning and service in a diverse society.			
To provide students with a diverse, innovative faculty dedicated to excellence in teaching, scholarly pursuits and continuous improvement of programs.			
To provide university-wide student services, activities and resources that complement academic programs.			
To support and strengthen student, faculty and administrative structures that promote shared governance of the institution.			
To promote and encourage student, faculty, staff and community interaction in a positive academic climate that creates opportunities for cultural,			

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

## PART 2

### Discussion of Instructional Changes Resulting from 2014-2015 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
SLO #1. A new textbook was not selected for 2015-2016 for Programming I and II. A new textbook will be adopted for 2016-2017 academic year. The instructor who taught Programming I this year resigned and a new instructor took over. To maintain continuity in the course we kept the same textbook.	N	No impact on program curriculum or budget.
SLO #2. We continued to use course grades to assess the learning outcome.	Y	No impact on program curriculum or budget.

## PART 3

### Discussion About the University Assessment Committee's 2014-2015 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."

#### AS Computer Science

1. Regarding the low standard set for the PAT test in CS 2323, recommend including a comment that addresses the rationale for the low standard needed. Outside reviewers may not be familiar with the examination or with the level of preparedness of these students in taking it.

Recommendation implemented. Explanation for setting the benchmark at the lower level was included in the performance standard column.

2. The assessment measure for SLO #3 could be more clearly worded. Suggest "Final course grade in CS 1113".

Recommendation implemented. The assessment measure has been changed to the final exam instead of the course grade.

3. Suggest using a standardized final exam rather than course grades for SLO #3. Course grades are considered an indirect measure, as a student's grade may reflect dropped exams, exam retakes, extra credit, etc.

Recommendation implemented. As noted in paragraph 2, we used the final exam which is the same test we use for the Computer Proficiency Exam. The performance standard of 78% is also the same benchmark we use for the passing score of the Computer Proficiency Exam.

**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 competence in analyzing problems, designing, and implementing programs to solve the problems using computer programming languages.	Program Assessment Test (PAT) will be administered to all CS 2323 students.	50% of the students who took the exam score higher than 50%.  The PAT tests students' cumulative knowledge of programming. The benchmark was set lower than the typical 70 to 75% level to compensate difficulty of the exam for those who have not taken the sequenced programming courses in consecutive	All students completing CS 2323 Programming II. All classes are online.	27 of which 3 were AS in CS	<p>All Students (Fall 2015)</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Count</th> <th>Mean</th> <th>Std</th> </tr> </thead> <tbody> <tr> <td>90-100</td> <td>0</td> <td>53.9%</td> <td></td> </tr> <tr> <td>80-89</td> <td>1</td> <td>57.1%</td> <td></td> </tr> <tr> <td>70-79</td> <td>4</td> <td>22.4%</td> <td></td> </tr> <tr> <td>60-69</td> <td>0</td> <td></td> <td></td> </tr> <tr> <td>50-59</td> <td>3</td> <td></td> <td></td> </tr> <tr> <td>0-50</td> <td>6</td> <td></td> <td></td> </tr> </tbody> </table> <p>All Students (Spring 2016)</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Count</th> <th>Mean</th> <th>Std</th> </tr> </thead> <tbody> <tr> <td>90-100</td> <td>0</td> <td>49.6%</td> <td></td> </tr> <tr> <td>80-89</td> <td>3</td> <td>71.0%</td> <td></td> </tr> <tr> <td>70-79</td> <td>4</td> <td>37.2%</td> <td></td> </tr> <tr> <td>60-69</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>50-59</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td>0-50</td> <td>4</td> <td></td> <td></td> </tr> </tbody> </table> <p>AS in CS Students Only</p> <table border="1"> <thead> <tr> <th>Range</th> <th>Count</th> <th>Mean</th> </tr> </thead> <tbody> <tr> <td>90-100</td> <td>0</td> <td>47.7%</td> </tr> </tbody> </table>	Range	Count	Mean	Std	90-100	0	53.9%		80-89	1	57.1%		70-79	4	22.4%		60-69	0			50-59	3			0-50	6			Range	Count	Mean	Std	90-100	0	49.6%		80-89	3	71.0%		70-79	4	37.2%		60-69	1			50-59	1			0-50	4			Range	Count	Mean	90-100	0	47.7%	Aggregating both sections, 17 of 27 (63%) scored over 50%. An area of concern is the lack of participation of the students which brings down the average. The average score is a drop over the previous year's average of 68% passing. The number of AS students is too small to base any conclusion.	Y
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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)
		semesters.			80-89 0 Median 65.0% 70-79 1 STD 41.8% 60-69 1 50-59 0 0-50 1		
2. Students will integrate the design, implementation and administration of computer networks.	An IT 2153 hands-on project will be assigned that examines the students' knowledge and ability to set up a minimal Local Area Network (LAN) involving a server and two or more clients.	70% of the students will be able to design a Local Area Network (LAN) upon completing the IT2153 Network Operating Systems I course with an accuracy of 70%.	All ASCS students taking IT 2153 in Fall 2015. Class is online.	12	Course Grades: 90-100 3 80-89 7 70-79 1 60-69 0 0=-59 1  ASCS Students Only 90-100 0 80-89 1 70-79 1 60-69 0  Course grades were tabulated to make the performance assumption.  11 out of 12 (91.7%) met the performance measure.	Comparative Data: 2013-2014: 15 out of 18 (83%) met the performance measure.  2014-2015: 8 out of 8 (100%) met the performance measure.  2015-2016 11 out of 12 (91.7%)  The sample size is too small to make any significant comparison.	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)
3. Students will demonstrate proficiency in the use of currently standard computing tools such as internet browsers, email, word processors, spreadsheet, and presentation software.	A standardized final exam developed by the MASH (Microcomputer Applications Stakeholders) to assess the skill level of Microsoft Office 2013	At least seventy percent of the AS CS 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 AS CS majors who took the Microcomputer Applications course in the fall 2015 and the spring 2016 semesters	16	<p>The breakdown of the number of students for each category (A – F), for the in-class and online classes final test scores follows:  Fifteen in-class students:  8 A's (90-100%)  6 B's (80-89%):  1 C (70-79%)  0 D (60-69%)  0 F's (Below 60%).  One-hundred percent scored 78% or higher on the final.</p> <p>One online class student:  0 A's (90-100%)  1 B (80-89%):  0 C's (70-79%)  0 D's (60-69%)  0 F's (Below 60%).  One-hundred percent scored 78% or higher on the final.</p> <p>No blended class students</p> <p>Overall: In-class + online students; Sixteen out of sixteen students scored 78% or higher on the final, satisfying the computer proficiency requirement.</p>	<p>ASCS students demonstrated the proficiency in the use of MS Office, thus meeting the RSU computer proficiency requirement.</p> <p>Both Online and In-class students met the proficiency.</p> <p>Comparative Data:  2013-2014:  Overall: 10 out of 12 students (83%) earned a grade of C or better.</p> <p>2014-2015:  Overall: 14 out of 17 students (82.33%) earned a grade of C or better,</p> <p>2015-2016  16 out of 16 (100%) scored 78% or higher</p>	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.
SLO #1	A new textbook will be adopted for Programming I and II courses. (This is the same change that was to be implemented this year but it will be implemented next academic year 2016-2017.	To strengthen students' knowledge and skills of programming fundamentals before introducing object-oriented concepts.	Improvement in PAT scores and coding skills.

**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): Programming Assessment Test (PAT), course grades
- 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, collect, analyze data for IT 2153	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	Administer PAT, collect, analyze PAT results.	On separate sheet
Curtis Sparling	Collect, analyze data for CS 1113	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	10/24/2016
Dean	Susan Willis	On separate sheet	10/24/2016

## 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 not, and their impact on curriculum or program budget was discussed thoroughly.	Most planned changes were listed, and their status or impact on curriculum or program budget was discussed.	Some planned changes were listed, and their status or impact on curriculum or program budget was not clearly discussed.	No planned changes were listed, and their status or impact on curriculum or program budget was not discussed.

### 3) Did the department include peer review feedback and provide rationale for implementing or not implementing suggestions?

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
All reviewer feedback was listed, and for each suggestion a clear	Most reviewer feedback was listed, and for most suggestions a	Some reviewer feedback was listed, and for some suggestions a	Feedback from reviewers was not included.

rationale was given for its being implemented or not.	rationale was given for their being implemented or not.	rationale was given for their being implemented or not.	
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**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?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>
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?**

<b>4 = Exemplary</b>	<b>3 = Established</b>	<b>2 = Developing</b>	<b>1 = Undeveloped</b>

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.
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**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 or 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 standards.	Stated for most performance standards.	Stated for some performance standards.	Not stated for any performance standard.

**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.**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
All planned changes are	Most planned changes are	Some planned changes are	No planned changes are

specifically focused on student learning and based on the conclusions. The rationale for planned changes is well grounded and convincingly explained.	specifically focused on student learning and based on the conclusions. The rationale for planned changes is mostly well grounded and convincingly explained.	specifically focused on student learning and based on the conclusions. The rationale for planned changes is lacking or is not convincingly explained.	specifically focused on student learning and based on the conclusions. There is no rationale.
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**6) Did the faculty include at least one teaching technique they believe improves student learning or student engagement in the classroom?**

Yes	No		
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?**

4 = Exemplary	3 = Established	2 = Developing	1 = Undeveloped
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