

Assessment: Course Four Column

Fall 2018



El Camino: Course SLOs (BUS) - Computer Information Systems

ECC: CIS 11:Help Desk Operations

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
<p>SLO #2 Help Desk Operations - Identify the major steps in the Incident Management process.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2016-17 (Fall 2016), 2018-19 (Fall 2018)</p> <p>Input Date: 05/01/2014</p>	<p>Case Study - Students were provided with real life case studies, scenarios and situations where they identified the major steps in the incident management process.</p> <p>Taking advantage of ITIL's recommended Incident Management strategy (which are typically identified as level 1 support the following activities were covered as case study and homework problems):</p> <ul style="list-style-type: none">• Incident identification• Incident logging• Incident categorization• Incident prioritization• Initial diagnosis• Escalation, as necessary, to level 2 support• Incident resolution• Incident closure• Communication with the user community throughout the life of the incident <p>Standard and Target for Success: It is expected that a minimum of 75%</p>	<p>Semester and Year Assessment Conducted: 2016-17 (Fall 2016)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 17</p> <p>Excellent: 23.53 % (4/17)</p> <p>Good: 52.91 % (9/17)</p> <p>Satisfactory: 23.53% (4/17)</p> <p>Unsatisfactory: 5.88% (0/17)</p> <p>Failing: 0.00% (0/17)</p> <p>94.12% of the class scored satisfactorily or above.</p> <p>The classroom sharing and discussion of personal and workplace experiences in dealing different incident responses and their management did help clarify and enforce student learning. It should be noted that the students who scored less than satisfactory are also the ones who had attendance problems and/or did not complete homework assignments. (12/06/2016)</p> <p>Faculty Assessment Leader: R. Alizadeh</p>	<p>Action: Continue to evaluate the case studies and teaching examples assuring to develop new examples regularly. (09/18/2017)</p> <p>Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
	<p>of the students will score at least satisfactorily (70% or higher) on this SLO. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p> <p>Laboratory Project/Report - Multiple Lab Assignments spread throughout the semester to test student comprehension of the Incident Management process.</p> <p>Standard and Target for Success: It is expected that 70% of students will score 70% or above on this SLO.</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Not Met A total of 12 students took this assessment.</p> <p>4 students (33% students) got between 90% and 100%. 2 students (17% students) got between 80% and 89%. 2 students (17% students) got between 70% and 79%. 2 students (17% students) got between 60% and 69%. 2 students (17% students) got between 0% and 59%.</p> <p>Overall, 8 students (67% students) got 70% or above on this SLO. While students were generally able to comprehend the concept of incident management, there were issues in properly understanding the various approaches involved in the choice of incident management techniques. This is a difficult concept to understand in the sense that real-life work experience is required, and even seasoned Information Technology professionals struggle in choosing the right combination of incident management techniques and their applications. In the future, a guest speaker and/or a field trip to a local company would assist in meeting the standard of this SLO. (12/20/2018)</p> <p>Faculty Assessment Leader: J. Siddiqui</p>	<p>Action: Students seemed to have trouble in distinguishing between various incident management techniques. More time and effort needs to be dedicated to clarify the concepts and scope of various incidents and their associated issues. (11/08/2019)</p> <p>Action Category: Teaching Strategies</p>

ECC: CIS 119:Computer Security and Forensics

Course SLOs	Assessment Method Description	Results	Actions
<p>SLO #1 - Demonstrate the knowledge necessary to create a secure computer environment.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2017-18 (Fall 2017), 2018-19 (Fall 2018)</p> <p>Input Date: 05/19/2017</p> <p>Comments:: New course effective Fall 2017.</p>	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple-choice questions relating to the assessed SLO concepts covered in the course textbook.</p> <p>Standard and Target for Success: It is expected that the "correct" response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent:>=90% Good:>=80% and <90% Satisfactory:>=70% and <80% Unsatisfactory:>=60% and <70% Failing:<60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 11</p> <p>Question #7: 91.0% Excellent Question #9: 81.82% Good Question #10: 100.00% Excellent Question #11: 90.91% Excellent Question #12: 90.91% Excellent</p> <p>Five questions were used in this assessment. Out of the 5 questions, students met the standard for all 5 of them. (02/24/2019)</p> <p>Faculty Assessment Leader: R. Perkins</p>	<p>Action: I will use different questions that will challenge students more for next evaluation. (09/01/2019)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Cybersecurity. (09/01/2019)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The action taken was to re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliance in Cybersecurity. This action was implemented Fall 2018. Based of observing the previous assessment in Fall 2017, 4 out of the 5 questions improved to excellent according to the rubric. (03/01/2019)</p>
		<p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 20</p> <p>Question #7: 100.00% Excellent Question #9: 90.00% Good Question #10: 70.00% Satisfactory Question #11: 85.00% Good Question #12: 85.00% Good</p>	<p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Cybersecurity. (03/02/2018)</p> <p>Action Category: Teaching Strategies</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
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Five questions were used in this assessment. Of the 5 questions, students met the standard for all 5 of them.
(03/02/2018)

Faculty Assessment Leader: R. Perkins

ECC: CIS 122:Ethical Hacking

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
<p>SLO #1 Identify and Analyze Steps - Identify and analyze the steps an ethical hacker would take in order to compromise a target system. Course SLO Status: Active Course SLO Assessment Cycle: 2018-19 (Fall 2018), 2020-21 (Fall 2020) Input Date: 03/20/2018</p>	<p>Laboratory Project/Report - Students are given a lab project relating to the assessed SLO concepts covered in the course textbook. In this lab, 5 challenge flags should be captured. Standard and Target for Success: It is expected that the “correct” response percentage rate for all students completing this lab for the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >=90% Good: >=80% and <90% Satisfactory: >=70% and <80% Unsatisfactory: >=60% and <70% Failing: <60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018) Standard Met? : Standard Met Total number of students of participating: 11</p> <p>Based on the laboratory project the average score for all students is 83.74% Good</p> <p>The standard for this SLO was met. Most students were able to capture all 5 flags for this lab project but there was three student who only captured 2 flags. (02/24/2019) Faculty Assessment Leader: R. Perkins</p>	<p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Penetration testing. (02/01/2020) Action Category: Teaching Strategies</p>
<p>SLO #2 Identify Tools and Techniques - Identify the tools and techniques used to carry out a penetration testing. Course SLO Status: Active Course SLO Assessment Cycle: 2018-19 (Fall 2018), 2020-21 (Fall 2020) Input Date: 03/20/2018</p>	<p>Laboratory Project/Report - Students are given a lab project relating to the assessed SLO concepts covered in the course textbook. In this lab, 5 challenge flags should be captured. Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >=90% Good: >=80% and <90%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018) Standard Met? : Standard Met Total number of students of participating: 11</p> <p>Based on the laboratory project the average score for all students is 96.36% Excellent</p> <p>The standard for this SLO was met. Out of 11 students 10 students were able to capture all 5 flags. There was 1 student that only captured 3 out of the 5 flags. (02/24/2019) Faculty Assessment Leader: R. Perkins</p>	<p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Penetration testing. (02/01/2020) Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
	<p>Satisfactory: >=70% and <80%</p> <p>Unsatisfactory: >=60% and <70%</p> <p>Failing: <60%</p>		
<p>SLO #3 Assess Potential Vulnerabilities - Assess potential vulnerabilities in a network security system within executable programs or within network protocols.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2018-19 (Fall 2018), 2020-21 (Fall 2020)</p> <p>Input Date: 03/20/2018</p>	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple-choice questions relating to the assessed SLO concepts covered in the course textbook.</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >=90%</p> <p>Good: >=80% and <90%</p> <p>Satisfactory: >=70% and <80%</p> <p>Unsatisfactory: >=60% and <70%</p> <p>Failing: <60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students of participating: 14</p> <p>Question #1: 86.00% Good</p> <p>Question #2: 100.00% Excellent</p> <p>Question #3: 79.00% Satisfactory</p> <p>Question #4: 100.00% Excellent</p> <p>Question #5: 93.00% Excellent</p> <p>Question #6: 86.00% Good</p> <p>Question #7: 79.00% Satisfactory</p> <p>Question #8: 93.00% Excellent</p> <p>Question #9: 86.00% Good</p> <p>Question #10: 64.00% Unsatisfactory</p> <p>Ten questions were used in this assessment. Of the 10 questions, students met the standard for 9 of them.</p> <p>Question 10 “Port scanning is a noninvasive, nondestructive, and legal testing procedure that is protected by federal law.” The correct answer is “false”</p> <p>Based on Question 10 being Unsatisfactory the standard was not met for this assignment. Question 10 was slightly under the slightly 70% satisfactory rate. (02/24/2019)</p> <p>Faculty Assessment Leader: R. Perkins</p>	<p>Action: Faculty will spend more time in lecture covering port scanning. (02/01/2020)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Penetration testing. (02/01/2020)</p> <p>Action Category: Teaching Strategies</p>
<p>SLO #4 Understand Basic Techniques - Understand the basic techniques for gaining unauthorized access into a network and computer system using both technical and non-technical means.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2018-19 (Fall 2018), 2020-21 (Fall 2020)</p>	<p>Laboratory Project/Report - Students are given a lab project relating to the assessed SLO concepts covered in the course textbook. In this lab, 5 challenge flags should be captured.</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students of participating: 9</p> <p>Based on the laboratory project the average score for all students is 97.98% Excellent</p> <p>The standard for this SLO was met. Out of 9 students 8</p>	<p>Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices, technological advances, and compliances in Penetration testing. (02/01/2020)</p> <p>Action Category: Teaching Strategies</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
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Input Date: 03/20/2018

students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.

Excellent: >=90%

Good: >=80% and <90%

Satisfactory: >=70% and <80%

Unsatisfactory: >=60% and <70%

Failing: <60%

students captured all 5 flags. One student captured 4 out 5 flags. (02/24/2019)

Faculty Assessment Leader: R. Perkins

ECC: CIS 13:Computer Information Systems

Course SLOs	Assessment Method Description	Results	Actions												
<p>SLO #2 System Development Process - Demonstrate an understanding of the system development process and use of information systems within an organization.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2015-16 (Fall 2015), 2016-17 (Spring 2017), 2017-18 (Fall 2017), 2018-19 (Fall 2018), 2019-20 (Fall 2019), 2020-21 (Fall 2020)</p> <p>Input Date: 11/12/2013</p> <p>Comments:: Moved FA16 to SP17 per Monica Chaban's 04.04.2017 & Russell Serr's 04.05.2017 e-mails. Will go back to Fall assessments in FA17.</p>	<p>Exam/Test/Quiz - Exam developed from textbook material.</p> <p>Assessment Tool</p> <p>4. In addition to the normal business transaction processing systems, there are also specialty transaction processing systems used by law enforcement, the military, and other organizations. (T/F)</p> <p>6. In traditional system development, the phases of system development are not carried out in a preset order. (T/F)</p> <p>7. Information systems are used to support business intelligence (BI). (T/F)</p> <p>8. Each phase of the ____ produces some type of documentation to pass on to the next phase.</p> <p>a. system analysis c. system implementation</p> <p>b. system development life cycle d. system acquisition</p> <p>9. A(n) ____ provides regular, routine, and timely information to decision makers.</p> <p>a. transaction processing system</p> <p>b. office system</p> <p>c. general ledger system</p> <p>d. management information</p>	<p>Semester and Year Assessment Conducted: 2013-14 (Fall 2013)</p> <p>Standard Met? : Standard Met</p> <p>439 students were assessed. Of the 439:</p> <ul style="list-style-type: none">• 100 percentile:187• 80 percentile 137 students• 60 percentile: 73 students• Below 60 percentile: 42 students <p>90% met the expectation.</p> <p>Results by question:</p> <table><tr><th>Statement</th><th>Percentage Correct</th></tr><tr><td>4</td><td>93</td></tr><tr><td>6</td><td>75</td></tr><tr><td>7</td><td>88</td></tr><tr><td>8</td><td>66</td></tr><tr><td>9</td><td>80</td></tr></table> <p>Summarize the patterns observed in the data. What were the most important findings from the data?</p> <p>The overall results (90%) are very encouraging, suggesting that most students understand the concepts presented in the assessment. The teaching methodologies utilized accomplished the goals of this SLO.</p> <p>Question 8, the lowest scoring statement was analyzed more closely.</p> <p>Question 8: 66% Correct: This statement challenges the student to identify one component of the system development life cycle (SDLC). The answer choices are very similar causing the student to focus and consider each choice thoughtfully in order to arrive at the correct answer. While most of the students answered this correctly and the</p>	Statement	Percentage Correct	4	93	6	75	7	88	8	66	9	80	<p>Action: A review of question 8 for possible revision. (05/15/2014)</p> <p>Action Category: SLO/PLO Assessment Process</p> <hr/> <p>Action: Consider additional instruction concerning SDLC concepts. (05/15/2014)</p> <p>Action Category: Teaching Strategies</p>
Statement	Percentage Correct														
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6	75														
7	88														
8	66														
9	80														

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	<p>system (MIS)</p> <p>Standard and Target for Success: It is expected that 60% of the students correctly answer three or more questions.</p> <p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to the material covered in chapter 12 (Information Systems and Systems Development) of the course textbook.</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80%% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>text has ample material on the SDLC, a higher success rate was expected on this question. The data suggests possible revision of the question or additional instruction concerning SDLC concepts. (01/24/2014)</p> <p>Faculty Assessment Leader: Gabriella Fernandez Faculty Contributing to Assessment: R. Perkins, R. Harris, L. Daniels, G. Fernandez, P. Baumgardner. P. Vacca, R. Barton, J, Thompson, M. Chaban, J. Siddiqui, B. Williams, J. Craig</p> <p>Semester and Year Assessment Conducted: 2013-14 (Spring 2014)</p> <p>Standard Met? : Standard Not Met Total number of students participating: 371</p> <table><thead><tr><th></th><th>Excellent</th><th>Good</th><th>Satisfactory</th><th></th><th></th></tr><tr><th></th><th>Unsatisfactory</th><th>Failing</th><th>Correct</th><th>Percent</th><th></th></tr></thead><tbody><tr><td>Question 1</td><td>19/371</td><td>0/371</td><td>40/371</td><td>53/371</td><td></td></tr><tr><td></td><td>85/371</td><td>197/371;</td><td>53.1%</td><td></td><td></td></tr><tr><td>Question 2</td><td>224/371</td><td>93/371</td><td>17/371</td><td>8/371</td><td></td></tr><tr><td></td><td>0/371</td><td>342/371;</td><td>92.2%</td><td></td><td></td></tr><tr><td>Question 3</td><td>238/371</td><td>93/371</td><td>9/371</td><td>4/371</td><td></td></tr><tr><td></td><td>0/371</td><td>344/371;</td><td>92.7%</td><td></td><td></td></tr><tr><td>Question 4</td><td>176/371</td><td>106/371</td><td>45/371</td><td>0/371</td><td></td></tr><tr><td></td><td>0/371</td><td>327/371;</td><td>88.1%</td><td></td><td></td></tr><tr><td>Question 5</td><td>200/371</td><td>83/371</td><td>34/371</td><td>11/371</td><td></td></tr><tr><td></td><td>0/371</td><td>328/371;</td><td>88.4%</td><td></td><td></td></tr><tr><td>Question 6</td><td>53/371</td><td>53/371</td><td>81/371</td><td>17/371</td><td></td></tr><tr><td></td><td>46/371</td><td>250/371;</td><td>67.4%</td><td></td><td></td></tr><tr><td>Question 7</td><td>40/371</td><td>67/371</td><td>50/371</td><td>74/371</td><td></td></tr><tr><td></td><td>32/371</td><td>263/371;</td><td>70.8%</td><td></td><td></td></tr><tr><td>Question 8</td><td>38/371</td><td>10/371</td><td>41/371</td><td>22/371</td><td></td></tr><tr><td></td><td>79/371</td><td>190/371;</td><td>51.1%</td><td></td><td></td></tr><tr><td>Question 9</td><td>27/371</td><td>70/371</td><td>62/371</td><td>84/371</td><td></td></tr><tr><td></td><td>21/371</td><td>264/371;</td><td>71.1%</td><td></td><td></td></tr><tr><td>Question 10</td><td>144/371</td><td>59/371</td><td>79/371</td><td>29/371</td><td></td></tr><tr><td></td><td>3/371</td><td>314/371;</td><td>84.6%</td><td></td><td></td></tr></tbody></table> <p>The overall correct response rate for all students on all questions was 76.0%. Our target, however, was to have each individual question answered correctly by a minimum of 70% of the students assessed. Seven of the ten questions were answered satisfactorily or better (>= 70%),</p>		Excellent	Good	Satisfactory				Unsatisfactory	Failing	Correct	Percent		Question 1	19/371	0/371	40/371	53/371			85/371	197/371;	53.1%			Question 2	224/371	93/371	17/371	8/371			0/371	342/371;	92.2%			Question 3	238/371	93/371	9/371	4/371			0/371	344/371;	92.7%			Question 4	176/371	106/371	45/371	0/371			0/371	327/371;	88.1%			Question 5	200/371	83/371	34/371	11/371			0/371	328/371;	88.4%			Question 6	53/371	53/371	81/371	17/371			46/371	250/371;	67.4%			Question 7	40/371	67/371	50/371	74/371			32/371	263/371;	70.8%			Question 8	38/371	10/371	41/371	22/371			79/371	190/371;	51.1%			Question 9	27/371	70/371	62/371	84/371			21/371	264/371;	71.1%			Question 10	144/371	59/371	79/371	29/371			3/371	314/371;	84.6%			<p>Action: More time needs to be spent explaining the tasks that are required during each phase of the SDLC (systems development life cycle). (12/11/2014)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: A test question will be reworded to replace the acronym TPS with the words Transaction Processing System. (10/01/2014)</p> <p>Action Category: Teaching Strategies</p>
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Course SLOs	Assessment Method Description	Results	Actions
		while the remaining three questions (questions 1, 6 and 8) were not. (08/25/2014) Faculty Assessment Leader: Randy Harris Faculty Contributing to Assessment: P. Vacca, L. Daniels, J. Thompson, R. Perkins, P. Baumgardner, M. Chaban, J. Siddiqui, J. Craig, R. Barton Semester and Year Assessment Conducted: 2015-16 (Fall 2015) Standard Met? : Standard Not Met Total Number of Students: 342 Correct Incorrect Percent Correct	Action: More time needs to be spent explaining the systems development life cycle (SDLC), and concepts in data analysis and design. (05/10/2016) Action Category: Teaching Strategies
	Exam/Test/Quiz - Students were given a test consisting of true/false and multiple choice questions relating to the material covered in SLO#2 of CIS-13. They were given a total of 10 questions: True/False 1. TPS transactions are typically processed using batch processing. 2. In addition to the normal business transaction processing systems, there are also specialty transaction processing systems used by law enforcement, the military and other organizations. 3. The information that information systems provide is used to support a wide variety of business activities, from day-to-day transactions to long-term strategic planning. 4. Systems development is the process of analyzing a work environment, designing a new system or making modifications to the current system to fit the current needs of that work environment. Multiple Choice 5. When computer systems perform in ways that would be considered intelligent if observed in	Question 1 321 21 93.86 Question 2 320 22 93.48 Question 3 316 26 92.54 Question 4 299 43 87.28 Question 5 311 31 91.00 Question 6 283 59 82.68 Question 7 233 109 68.00 Question 8 179 163 52.33 Question 9 225 117 65.88 Question 10 300 42 87.86 The overall percentage correct for SLO #2 was 81.49%. However, the target for this SLO is to achieve a minimum of 70% for each question. While seven out of the ten questions met the goal (>=70%), student responses to questions 7, 8, and 9, did not. (12/18/2015) Faculty Assessment Leader: A. Lee Faculty Contributing to Assessment: All full-time and part-time CIS faculty Semester and Year Assessment Conducted: 2014-15 (Fall 2014) Standard Met? : Standard Not Met Total number of students participating: 218 Correct Incorrect Correct; Percentage	Action: A test question will be reworded to replace the acronym TPS with the words Transaction Processing System. (05/05/2015) Action Category: Teaching Strategies

Course SLOs	Assessment Method Description	Results				Actions
	<p>humans, it is commonly referred to as ____.</p> <p>6. ____ Each phase of the ____ produces some type of documentation to pass on to the next phase.</p> <p>7. ____ is the phase of system development in which the problem area is studied in depth and the needs of system users are assessed.</p> <p>8. A(n) ____ is used to describe the characteristics of data used in a database or other type of computer system.</p> <p>9. For the consumer products division, Acme Corporation is planning to replace the old system with a new one all at once. This is called a ____ conversion.</p> <p>10. A(n) information system is a collection of elements that interact to generate information needed by the users in an organization. People are one of those elements. Which of the following is/are also an element that makes up an information system?</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher.</p>	<p>Question 1 85 133 38.99</p> <p>Question 2 202 16 92.66</p> <p>Question 3 204 14 93.58</p> <p>Question 4 178 40 81.65</p> <p>Question 5 196 22 89.91</p> <p>Question 6 170 48 77.98</p> <p>Question 7 157 61 72.02</p> <p>Question 8 87 131 39.91</p> <p>Question 9 144 74 66.06</p> <p>Question 10 190 28 87.16</p>				<p>Action: More time needs to be spent explaining the characteristics of data used in a database. (05/05/2015)</p> <p>Action Category: Teaching Strategies</p>
		<p>The overall correct response rate for all students on all questions was 74%. Our target, however, was to have each individual question answered correctly by a minimum of 70% of the students assessed. Eight of the ten questions were answered satisfactorily or better ($\geq 70\%$), while the remaining two questions (questions 1 and 8) were not.</p> <p>(01/25/2015)</p> <p>Faculty Assessment Leader: J. Siddiqui</p> <p>Faculty Contributing to Assessment: All full-time and part-time CIS instructors</p>				
	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to</p>	<p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017)</p> <p>Standard Met? : Standard Not Met</p>				<p>Action: The faculty agree that the lecture material for Information systems needs to be covered in</p>

Course SLOs	Assessment Method Description	Results	Actions
	<p>the assessed SLO concepts covered in the course textbook.</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>Total number of students participating: 326 Percentage and Number of Correct Responses Question # 7: 91.3% (298/326); Excellent Question #13: 87.5% (285/326); Good Question #15: 83.4% (272/326); Good Question #17: 83.6% (273/326); Good Question #24: 76.3% (249/326); Satisfactory Question #25: 69.4% (226/326); Unsatisfactory</p> <p>Six questions were used in this assessment. Of the 6 questions, students met the standard for 5 of them.</p> <p>Students failed to meet the standard for Question 25, “Hewlett Packard is planning to get rid of its old accounting system, and replace it with a new one all at once. This is called a ____ conversion”.</p> <p>The possible answers for this question were “pilot, phased, direct, and parallel”. The correct response was “direct”. (03/02/2018) Faculty Assessment Leader: R. Perkins Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Ken Sims</p>	<p>more depth (09/01/2018) Action Category: Teaching Strategies</p>
		<p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017) Standard Met? : Standard Not Met Total number of students participating: 326 Percentage and Number of Correct Responses Question # 2: 85.2% (278/326); Good Question # 3: 75.0% (245/326); Satisfactory Question # 4: 85.1% (277/326); Good Question # 6: 82.7% (270/326); Good Question # 8: 87.0% (284/326); Good Question # 9: 91.4% (298/326); Excellent Question # 10: 82.8% (270/326); Good Question # 11: 85.3% (278/326); Good Question # 12: 83.9% (273/326); Good Question # 14: 90.0% (293/326); Excellent Question # 16: 60.3% (197/326); Unsatisfactory Question # 20: 89.6% (292/326); Good</p>	<p>Action: The faculty agree that the lecture material for System components and information security needs to be covered in more depth (09/01/2018) Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
		<p>Question # 23: 51.3% (167/326); Failing</p> <p>Thirteen questions were used in this assessment. Of the 13 questions, students met the standard for 11 of them. Students failed to meet the standard for Question #16 “Rearranging the data on a hard drive so all the files are stored in contiguous locations is called ____.” The possible responses were “disk defragmentation, file compression, disk backup, and disk cleanup” The correct response is “disk defragmentation”.</p> <p>Even though the students failed to meet the standard for Question #16, it was an improvement compared to the assessment from last semester (which was 56.6%).</p> <p>Students failed to meet the standard for Question #23 “Collecting in-depth information about an individual, which is generally sold for marketing purposes is known as ____.” The possible responses were “personal databasing, identity theft, information piracy, and electronic profiling”. The correct response is “electronic profiling but the majority of the students choose identity theft”.</p> <p>Even though the students failed to meet the standard for Question 23 it was an improvement compared to the assessment from last semester (which was 40.6%). (03/02/2018)</p> <p>Faculty Assessment Leader: R. Perkins Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Ken Sims</p>	
		<p>Semester and Year Assessment Conducted: 2016-17 (Spring 2017)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 288</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 7: 91.0% (262/288); Excellent</p> <p>Question #13: 94.1% (271/288); Excellent</p> <p>Question #15: 89.2% (257/288); Good</p> <p>Question #17: 78.1% (225/288); Satisfactory</p> <p>Question #24: 72.9% (210/288); Satisfactory</p> <p>Question #25: 73.6% (212/288); Satisfactory (06/08/2017)</p>	<p>Action: More time will be spent in lecture to cover the concepts relating to questions 17 and 24. (12/15/2017)</p> <p>Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to the assessed SLO concepts covered in the course textbook</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>Faculty Assessment Leader: R. Harris Faculty Contributing to Assessment: M. Chaban, R. Perkins, J. Siddiqui</p> <p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 229 Percentage and Number of Correct Responses Question # 7: 87.7% (201/229); Good Question #13: 89.6% (205/229); Good Question #15: 87.4% (200/229); Good Question #17: 66.2% (152/229); Unsatisfactory Question #24: 66.9% (153/229); Unsatisfactory Question #25: 58.8% (135/229); Failing</p> <p>Six questions were used in this assessment. Of the 6 questions, students met the standard for 3 of them.</p> <p>Question 17, When a software program is purchased, the buyer is acquiring a(n) ____ that permits him or her to use the software.</p> <p>The possible answers for this question were “software license, copyright, ownership right, software key” The correct response is “Software License”</p> <p>Question 24 A(n) ____ is a collection of elements (people, hardware, software, and data) and procedures that interact to generate information needed by users in an organization.</p> <p>The possible answers for this question were “operating system, device, information system, and utility program” The correct response was “information system”</p> <p>Question 25, “Hewlett Packard is planning to get rid of its old accounting system, and replace it with a new one all at once. This is called a ____ conversion”.</p> <p>The possible answers for this question were “pilot, phased, direct, and parallel”. The correct response was “direct”.</p>	<p>Action: Faculty will spend more time lecture covering topics in depth. (09/01/2019)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The last action taken was to cover the topics more in depth for the Fall 2018. Looking at the results some areas were improved from the previous year, but we still have to focus more on the topics that did not meet the standard. (02/22/2019)</p>

Course SLOs	Assessment Method Description	Results	Actions												
<p>(02/13/2019)</p> <p>Faculty Assessment Leader: R. Perkins</p> <p>Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Khai Lu</p>															
<p>SLO #3 Communications - Identify and analyze existing and emerging technologies and their impact on organizations and society including communication and global relationships.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2015-16 (Fall 2015), 2016-17 (Spring 2017), 2017-18 (Fall 2017), 2018-19 (Fall 2018), 2019-20 (Fall 2019), 2020-21 (Fall 2020)</p> <p>Input Date: 11/12/2013</p> <p>Comments:: Moved FA16 to SP17 per Monica Chaban's 04.04.2017 & Russell Serr's 04.05.2017 e-mails. Will go back to Fall assessments in FA17.</p>	<p>Exam/Test/Quiz - Exam developed from textbook material.</p> <p>Assessment Tool</p> <p>2. If a government tries to block Internet access, users cannot use a third party located in another country to overcome the block. (T/F)</p> <p>5. The Internet has provided a marketplace where U.S. citizens may purchase bootleg or illegal copies of movies on DVDs from another country. (T/F)</p> <p>11. Artificial intelligence systems that carry on written conversations with people in a natural language (such as English, Spanish, Japanese) are called _____.</p> <p>a. chatterbots c. neural networks</p> <p>b. expert systems d. biometric systems</p> <p>12. _____ is often used to conduct face-to-face interactive meetings between people in different locations.</p> <p>a. Business web conferencing</p>	<p>Semester and Year Assessment Conducted: 2013-14 (Fall 2013)</p> <p>Standard Met? : Standard Met</p> <p>439 students were assessed. Of the 439:</p> <ul style="list-style-type: none">• 100 percentile:114• 80 percentile: 152 students• 60 percentile: 108 students• Below 60 percentile: 65 students <p>85% met the expectation.</p> <p>Results by question:</p> <table><tr><th>Statement</th><th>Percentage Correct</th></tr><tr><td>2</td><td>64</td></tr><tr><td>5</td><td>65</td></tr><tr><td>11</td><td>68</td></tr><tr><td>12</td><td>89</td></tr><tr><td>14</td><td>78</td></tr></table> <p>Summarize the patterns observed in the data. What were the most important findings from the data?</p> <p>The overall results (85%) are very good, and one hundred fourteen (114) students achieved a score of 100%. The teaching methodologies are accomplishing the goals of this SLO. However, the three questions with the lower scores test students suggest students in all CIS 13 classes need more information on emerging technologies and global impact of technology. Students do have a grasp on personal communication technology. These three questions were analyzed more closely.</p> <p>Question 2: 64% Correct: This statement presented the</p>	Statement	Percentage Correct	2	64	5	65	11	68	12	89	14	78	<p>Action: Additional instruction concerning emerging technologies and the global impact of technology. (05/15/2014)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: Review of question 11 for possible revision. (05/15/2014)</p> <p>Action Category: SLO/PLO Assessment Process</p>
Statement	Percentage Correct														
2	64														
5	65														
11	68														
12	89														
14	78														

Course SLOs	Assessment Method Description	Results	Actions																																								
	<p>c. Social networking</p> <p>b. Message boards d. Twitter</p>	student with concepts related to internet access, however the text briefly covers this topic. Therefore the concepts in this statement may need additional instruction in order to achieve higher success.																																									
	<p>14. _____ has enormous potential for providing quality medical care to individuals who live in rural or underdeveloped areas and who do not have access to sufficient medical care.</p>	Question 5: 65% Correct: Here students were presented with the concepts of the global impact of technology. The low performance here may have the same causes as question 2. Further instruction on the global impact of technology is needed.																																									
	<p>a. Telemedicine c. Broadcasting</p> <p>b. Telecommuting d. Infrared transmission</p>	Question 11: 68% Correct: The concept of artificial intelligence (AI) is presented in this statement. The text covers this topic by reviewing a variety of different types of AI, but few in great depth. This question may need revision. In addition, possibly additional instruction on this topic is needed. (01/24/2014)																																									
	<p>Standard and Target for Success: It is expected that 60% of the students correctly answer three or more questions.</p>	<p>Faculty Assessment Leader: Gabriella Fernandez</p> <p>Faculty Contributing to Assessment: R. Perkins, R. Harris, L. Daniels, G. Fernandez, P. Baumgardner. P. Vacca, R. Barton, J. Thompson, M. Chaban, J. Siddiqui, B. Williams, J. Craig</p>																																									
	<p>Students were given a test consisting of true/false and multiple choice questions relating to the material covered in SLO#3 of CIS-13. They were given a total of 10 questions:</p>	<p>Semester and Year Assessment Conducted: 2015-16 (Fall 2015)</p> <p>Standard Met? : Standard Not Met</p> <p>Total Number of Students: 342</p> <table><tr><td>Correct</td><td></td></tr><tr><td>Incorrect</td><td></td></tr><tr><td>Percent Correct</td><td></td></tr></table>	Correct		Incorrect		Percent Correct		<p>Action: More time needs to be spent on explaining concepts in wireless and satellite communications. (05/10/2016)</p> <p>Action Category: Teaching Strategies</p>																																		
Correct																																											
Incorrect																																											
Percent Correct																																											
	<p>True/False</p>																																										
	<p>1.GPS receivers are commonly used by individuals to determine their geographic location while hiking and to obtain driving directions while traveling.</p>	<table><tr><td>Question 1</td><td>337</td><td>5</td><td>98.45</td></tr><tr><td>Question 2</td><td>319</td><td>23</td><td>93.24</td></tr><tr><td>Question 3</td><td>296</td><td>46</td><td>86.42</td></tr><tr><td>Question 4</td><td>261</td><td>81</td><td>76.19</td></tr><tr><td>Question 5</td><td>182</td><td>160</td><td>53.13</td></tr><tr><td>Question 6</td><td>319</td><td>23</td><td>93.25</td></tr><tr><td>Question 7</td><td>300</td><td>42</td><td>87.72</td></tr><tr><td>Question 8</td><td>146</td><td>196</td><td>42.81</td></tr><tr><td>Question 9</td><td>275</td><td>67</td><td>80.27</td></tr><tr><td>Question 10</td><td>193</td><td>149</td><td>56.34</td></tr></table>	Question 1	337	5	98.45	Question 2	319	23	93.24	Question 3	296	46	86.42	Question 4	261	81	76.19	Question 5	182	160	53.13	Question 6	319	23	93.25	Question 7	300	42	87.72	Question 8	146	196	42.81	Question 9	275	67	80.27	Question 10	193	149	56.34	
Question 1	337	5	98.45																																								
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Question 8	146	196	42.81																																								
Question 9	275	67	80.27																																								
Question 10	193	149	56.34																																								
	<p>2.Some monitoring systems in use today use the RFID tags and RFID readers to monitor the status of objects (such as shipping boxes, livestock, or expensive equipment)</p>	<p>The overall percentage correct for SLO #3 was 76.78%.</p>																																									

Course SLOs	Assessment Method Description	Results	Actions
	to which the RFID tags are attached.	However, the target for this SLO is to achieve a minimum of 70% for each question. While seven out of the ten questions met the goal ($\geq 70\%$), student responses to questions 5, 8, and 10, did not. (12/18/2015)	
	3.Physicians can use telemedicine to perform remote diagnosis of patients.	Faculty Assessment Leader: A. Lee Faculty Contributing to Assessment: All full-time and part-time CIS faculty	
	4.Communications satellites are space-based devices launched into orbit around the earth to receive and transmit microwave signals to and from earth.	Semester and Year Assessment Conducted: 2014-15 (Fall 2014) Standard Met? : Standard Not Met Total number of students participating: 218	Action: More time needs to be spent explaining the various options and ranges covered by wireless network. (05/05/2015) Action Category: Teaching Strategies
	Multiple Choice	Correct Incorrect Percentage Correct	
	5.A global positioning system (GPS) consists of ____ and a group of GPS satellites.	Question 1 215 3 98.62 Question 2 204 14 93.58 Question 3 171 47 78.44 Question 4 171 47 78.44 Question 5 109 109 50.00 Question 6 205 13 94.04	
	6.__ technology is commonly used to monitor the status of objects, such as shipping boxes, livestock, or expensive equipment to which these types of tags are attached.	Question 7 180 38 82.57 Question 8 103 115 47.25 Question 9 29 189 13.30 Question 10 104 114 47.71	Action: More time needs to be spent explaining the differences between synchronous and asynchronous transmission. (05/05/2015) Action Category: Teaching Strategies
	7.____ is the use of networking technology to conduct real-time, face-to-face meetings between individuals physically located in different places.	The overall correct response rate for all students on all questions was 68.4%. Our target, however, was to have each individual question answered correctly by a minimum of 70% of the students assessed. Six of the ten questions were answered satisfactorily or better ($\geq 70\%$), while the remaining four questions (questions 5, 8, 9 and 10) were not. (01/25/2015) Faculty Assessment Leader: J. Siddiqui Faculty Contributing to Assessment: All full-time and part-time CIS instructors	
	8.Some wireless ____ are created by cities or large organizations to provide free or low-cost Internet access to residents of a particular area.		

Course SLOs	Assessment Method Description	Results	Actions
	<p>9. In ____ transmission, data is sent at the same time as other related data to support certain types of real-time applications that require the different types of data to be delivered at the proper speed for that application.</p> <p>10. ____ satellites travel at a speed and direction that keeps pace with the earth's rotation, so they appear (from earth) to remain stationary over a given spot.</p> <p>Standard and Target for Success: It is expected that the "correct" response percentage rate for all students on each question of the assessment will be 70% or higher.</p>		
	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to the assessed SLO concepts covered in the course textbook.</p> <p>Standard and Target for Success: It is expected that the "correct" response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70%</p>	<p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 326</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 2: 85.2% (278/326); Good</p> <p>Question # 3: 75.0% (245/326); Satisfactory</p> <p>Question # 4: 85.1% (277/326); Good</p> <p>Question # 6: 82.7% (270/326); Good</p> <p>Question # 8: 87.0% (284/326); Good</p> <p>Question # 9: 91.4% (298/326); Excellent</p> <p>Question # 10: 82.8% (270/326); Good</p> <p>Question # 11: 85.3% (278/326); Good</p> <p>Question # 12: 83.9% (273/326); Good</p> <p>Question # 14: 90.0% (293/326); Excellent</p> <p>Question # 16: 60.3% (197/326); Unsatisfactory</p> <p>Question # 20: 89.6% (292/326); Good</p>	<p>Action: The faculty agree that the lecture material for System components and information security needs to be covered in more depth (09/01/2018)</p> <p>Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
	Failing: < 60%	<p>Question # 23: 51.3% (167/326); Failing</p> <p>Thirteen questions were used in this assessment. Of the 13 questions, students met the standard for 11 of them. Students failed to meet the standard for Question #16 “Rearranging the data on a hard drive so all the files are stored in contiguous locations is called ____.” The possible responses were “disk defragmentation, file compression, disk backup, and disk cleanup” The correct response is “disk defragmentation”.</p> <p>Even though the students failed to meet the standard for Question #16, it was an improvement compared to the assessment from last semester (which was 56.6%).</p> <p>Students failed to meet the standard for Question #23 “Collecting in-depth information about an individual, which is generally sold for marketing purposes is known as ____.” The possible responses were “personal databasing, identity theft, information piracy, and electronic profiling”. The correct response is “electronic profiling but the majority of the students choose identity theft”.</p> <p>Even though the students failed to meet the standard for Question 23 it was an improvement compared to the assessment from last semester (which was 40.6%). (03/02/2018)</p> <p>Faculty Assessment Leader: R. Perkins Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Ken Sims</p>	
		<p>Semester and Year Assessment Conducted: 2016-17 (Spring 2017)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 288</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 2: 84.4% (243/288); Good</p> <p>Question # 3: 72.2% (208/288); Satisfactory</p> <p>Question # 4: 87.8% (253/288); Good</p> <p>Question # 6: 77.6% (224/288); Satisfactory</p> <p>Question # 8: 87.2% (251/288); Good</p> <p>Question # 9: 90.6% (261/288); Excellent</p>	<p>Action: More time will be spent in lecture to cover the concepts relating to questions 16 and 23. (12/15/2017)</p> <p>Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
		<p>Question # 10: 81.2% (234/288); Good Question # 11: 84.4% (243/288); Good Question # 12: 89.2% (257/288); Good Question # 14: 88.2% (254/288); Good Question # 16: 56.6% (163/288); Failing Question # 20: 92.0% (265/288); Excellent Question # 23: 40.6% (117/288); Failing (06/08/2017)</p> <p>Faculty Assessment Leader: R. Harris Faculty Contributing to Assessment: M. Chaban, R. Perkins, J. Siddiqui</p>	
	<p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to the assessed SLO concepts covered in the course textbook</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 229 Percentage and Number of Correct Responses</p> <p>Question # 2: 90.9% (214/229); Excellent Question # 3: 83.1% (190/229); Satisfactory Question # 4: 87.1% (199/229); Good Question # 6: 84.8% (194/229); Good Question # 8: 82.2% (188/229); Good Question # 9: 87.8% (201/229); Good Question # 10: 85.2% (195/229); Good Question # 11: 83.9% (192/229); Good Question # 12: 86.4 (198/229); Good Question # 14: 76.4% (175/229); Satisfactory Question # 16: 70.5% (162/229); Satisfactory Question # 20: 88.9% (204/229); Good Question # 23: 58.9% (167/229); Failing</p> <p>Thirteen questions were used in this assessment. Of the 13 questions, students met the standard for 12 of them.</p> <p>Students failed to meet the standard for Question #23 “Collecting in-depth information about an individual, which is generally sold for marketing purposes is known as ____.” The possible responses were “personal databasing, identity theft, information piracy, and electronic profiling”. The correct response is “electronic profiling but the majority of the students choose identity theft”.</p>	<p>Action: Faculty will spend more time in lecture covering topics in depth. (09/01/2019)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The last action taken was to cover the topics more in depth for the Fall 2018. Looking at the results we improved question 16 to 70.5% from 60.3%, which is now meeting the standard. We also made improvements to question 23 but we still have to focus more to improve the results. (02/22/2019)</p>

Course SLOs	Assessment Method Description	Results	Actions												
		Even though the students failed to meet the standard for Question 23 it was an improvement compared to the assessment from last semester (which was 51.28%). (02/13/2019) Faculty Assessment Leader: R. Perkins Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Khai Lu													
SLO #4 Networking - Demonstrate knowledge of network configurations, risk management and security protocols. Course SLO Status: Active Course SLO Assessment Cycle: 2015-16 (Fall 2015), 2016-17 (Spring 2017), 2017-18 (Fall 2017), 2018-19 (Fall 2018), 2019-20 (Fall 2019), 2020-21 (Fall 2020) Input Date: 11/12/2013 Comments:: Moved FA16 to SP17 per Monica Chaban's 04.04.2017 & Russell Serr's 04.05.2017 e-mails. Will go back to Fall assessments in FA17.	Exam/Test/Quiz - Exam developed from textbook material. Assessment Tool 3. A firewall is a security system that essentially creates a barrier between a computer or network and the Internet in order to protect against unauthorized access. (T/F) 15. A ____ provides a secure private tunnel from the user's computer through the Internet to another destination and is most often used to provide remote employees with secure access to a company network. a. laptop private network c. tunnel private network b. USB private network d. virtual private network 16. A ____ network uses a central device to connect each device to the network. a. star c. bus b. ring d. mesh 17. Which protocol can safely be used to transmit sensitive information, such as credit card numbers? a. ftp c. https b. http d. tcp	Semester and Year Assessment Conducted: 2013-14 (Fall 2013) Standard Met? : Standard Met 439 students were assessed. Of the 439: • 100 percentile: 95 • 80 percentile 152 students • 60 percentile: 120 students • Below 60 percentile: 72 students 84% met the expectation. Results by question: <table><tr><th>Statement</th><th>Percentage Correct</th></tr><tr><td>3</td><td>96</td></tr><tr><td>15</td><td>57</td></tr><tr><td>16</td><td>47</td></tr><tr><td>17</td><td>79</td></tr><tr><td>18</td><td>81</td></tr></table> Summarize the patterns observed in the data. What were the most important findings from the data? The overall result was very good (84%). The teaching methodologies employed are accomplishing most of the goals of this SLO. Given the results for questions 15 and 16, the data patterns suggests all CIS 13 classes need additional instruction on networking. Students do have a grasp on security protocols. The two statements with the lowest scores were analyzed more closely. Question 15: 57% Correct: This statement presented the	Statement	Percentage Correct	3	96	15	57	16	47	17	79	18	81	Action: Additional instruction on networking. (05/15/2014) Action Category: Teaching Strategies
Statement	Percentage Correct														
3	96														
15	57														
16	47														
17	79														
18	81														

Course SLOs	Assessment Method Description	Results	Actions																																																				
	<p>18. Digital signatures</p> <hr/> <p>a. may help prevent online fraud c. can help ISPs block phishing e-mails b. authenticate email d. all of the above</p> <p>Standard and Target for Success: It is expected that 60% of the students correctly answer three or more questions.</p> <p>Exam/Test/Quiz - Students were given a test consisting of true/false and multiple choice questions relating to the material covered in SLO#4 of CIS-13. They were given a total of 10 questions:</p> <p>True/False</p> <p>1.Client-server networks are frequently referred to as peer-to-peer networks.</p> <p>2.Transferring data from a client PC to a server is referred to as downloading.</p> <p>3.A firewall is a security system that creates a barrier between a computer or network and the Internet in order to protect against unauthorized access.</p> <p>4.Writing a computer virus or other type of malware or even posting the</p>	<p>student with concepts related to network security. Secure network connections are briefly covered in the text. Students need more information on secure network connections.</p> <p>Question 16: 47% Correct: Here students were presented with the topic of network hardware configuration. The text provides ample material on this subject however, the low performance indicates presentation on network topologies needs an approach that clarifies and explains the topic in a manner that will enable students to grasp this subject more successfully. (01/24/2014)</p> <p>Faculty Assessment Leader: Gabriella Fernandez</p> <p>Faculty Contributing to Assessment: R. Perkins, R. Harris, L. Daniels, G. Fernandez, P. Baumgardner. P. Vacca, R. Barton, J, Thompson, M. Chaban, J. Siddiqui, B. Williams, J. Craig</p> <p>Semester and Year Assessment Conducted: 2015-16 (Fall 2015)</p> <p>Standard Met? : Standard Not Met</p> <p>Total Number of Students: 342</p> <table> <tr> <td>Correct</td><td></td><td></td><td></td></tr> <tr> <td>Incorrect</td><td></td><td></td><td></td></tr> <tr> <td>Percent Correct</td><td></td><td></td><td></td></tr> </table> <table> <tr> <td>Question 1</td><td>209</td><td>133</td><td>61.11</td></tr> <tr> <td>Question 2</td><td>219</td><td>123</td><td>63.95</td></tr> <tr> <td>Question 3</td><td>338</td><td>4</td><td>98.72</td></tr> <tr> <td>Question 4</td><td>225</td><td>117</td><td>65.74</td></tr> <tr> <td>Question 5</td><td>260</td><td>82</td><td>76.05</td></tr> <tr> <td>Question 6</td><td>221</td><td>121</td><td>64.52</td></tr> <tr> <td>Question 7</td><td>319</td><td>23</td><td>93.36</td></tr> <tr> <td>Question 8</td><td>234</td><td>108</td><td>68.33</td></tr> <tr> <td>Question 9</td><td>285</td><td>57</td><td>83.40</td></tr> <tr> <td>Question 10</td><td>231</td><td>111</td><td>67.63</td></tr> </table> <p>The overall percentage correct for SLO #4 was 74.28%. However, the target for this SLO is to achieve a minimum of 70% for each question. While four out of the ten questions met the goal ($\geq 70\%$), student responses to questions 1, 2,4,6,8, and 10, did not. (12/18/2015)</p> <p>Faculty Assessment Leader: A. Lee</p> <p>Faculty Contributing to Assessment: All full-time and part-</p>	Correct				Incorrect				Percent Correct				Question 1	209	133	61.11	Question 2	219	123	63.95	Question 3	338	4	98.72	Question 4	225	117	65.74	Question 5	260	82	76.05	Question 6	221	121	64.52	Question 7	319	23	93.36	Question 8	234	108	68.33	Question 9	285	57	83.40	Question 10	231	111	67.63	<p>Action: More time needs to be spent on explaining and reinforcing concepts in computer networks and security. (05/10/2016)</p> <p>Action Category: Teaching Strategies</p>
Correct																																																							
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Question 10	231	111	67.63																																																				

Course SLOs	Assessment Method Description	Results	Actions																																												
	malware code on the Internet is not illegal, but it is considered highly unethical and irresponsible behavior.	time CIS faculty																																													
	5.Denial of service attacks are usually of insignificant cost in terms of business lost.	Semester and Year Assessment Conducted: 2014-15 (Fall 2014) Standard Met? : Standard Not Met Total number of students participating: 218	Action: More time needs to be spent explaining the various issues involved in Computer Security. (05/05/2015) Action Category: Teaching Strategies																																												
	Multiple Choice	<table> <thead> <tr> <th></th><th>Correct</th><th>Incorrect</th><th>Percentage Correct</th></tr> </thead> <tbody> <tr><td>Question 1</td><td>116</td><td>102</td><td>53.21</td></tr> <tr><td>Question 2</td><td>131</td><td>87</td><td>60.09</td></tr> <tr><td>Question 3</td><td>216</td><td>2</td><td>99.08</td></tr> <tr><td>Question 4</td><td>121</td><td>97</td><td>55.50</td></tr> <tr><td>Question 5</td><td>138</td><td>80</td><td>63.30</td></tr> <tr><td>Question 6</td><td>134</td><td>84</td><td>61.47</td></tr> <tr><td>Question 7</td><td>195</td><td>23</td><td>89.45</td></tr> <tr><td>Question 8</td><td>116</td><td>102</td><td>53.21</td></tr> <tr><td>Question 9</td><td>195</td><td>23</td><td>89.45</td></tr> <tr><td>Question 10</td><td>137</td><td>81</td><td>62.84</td></tr> </tbody> </table>		Correct	Incorrect	Percentage Correct	Question 1	116	102	53.21	Question 2	131	87	60.09	Question 3	216	2	99.08	Question 4	121	97	55.50	Question 5	138	80	63.30	Question 6	134	84	61.47	Question 7	195	23	89.45	Question 8	116	102	53.21	Question 9	195	23	89.45	Question 10	137	81	62.84	
	Correct	Incorrect	Percentage Correct																																												
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Question 9	195	23	89.45																																												
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	6.A ____ is a network that covers a relatively small geographical area, such as a home, office building, or school.	The overall correct response rate for all students on all questions was 68.8%. Our target, however, was to have each individual question answered correctly by a minimum of 70% of the students assessed. Three of the ten questions were answered satisfactorily or better ($\geq 70\%$), while the remaining seven questions (questions 1, 2, 4, 5, 6, 8 and 10) were not. (01/25/2015)	Action: More time needs to be spent explaining the concept of client-server networking. (05/05/2015) Action Category: Teaching Strategies																																												
	7. ____ refers to the amount of data that can be transferred (such as over a certain type of networking medium) in a given time period.																																														
	8. ____ is a wireless standard that is designed for very short-range (10 meters, approximately 33 feet, or less) connections.																																														
	9.A network adapter, also called a ____ when it is in the form of an expansion card, is used to connect a computer to a network.	Faculty Assessment Leader: J. Siddiqui Faculty Contributing to Assessment: All full-time and part-time CIS instructors																																													
	10. ____ includes any acts of malicious destruction to a computer or computer resource.																																														
	Standard and Target for Success: It is expected that the "correct"																																														

Course SLOs	Assessment Method Description	Results	Actions
	<p>response percentage rate for all students on each question of the assessment will be 70% or higher.</p> <p>Exam/Test/Quiz - Students are given a test consisting of true/false and multiple choice questions relating to the assessed SLO concepts covered in the course textbook.</p> <p>Standard and Target for Success: It is expected that the “correct” response percentage rate for all students on each question of the assessment will be 70% or higher. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 229</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 1: 93.3% (214/229) Excellent</p> <p>Question # 5: 96.7% (222/229); Excellent</p> <p>Question #18: 86.1% (197/229); Good</p> <p>Question #19: 79.0% (181/229); Satisfactory</p> <p>Question #21: 72.3% (166/229); Satisfactory</p> <p>Question #22: 87.8% (201/229); Excellent</p> <p>Six questions were used in this assessment. Of the 6 questions, students met the standard for 6 of them. (02/13/2019)</p> <p>Faculty Assessment Leader: R. Perkins</p> <p>Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Khai Lu</p> <p>Semester and Year Assessment Conducted: 2017-18 (Fall 2017)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 326</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 1: 89.0% (290/326); Good</p> <p>Question # 5: 94.2% (307/326); Excellent</p> <p>Question #18: 86.4% (282/326); Good</p> <p>Question #19: 73.4% (239/326); Satisfactory</p> <p>Question #21: 66.5% (217/326); Unsatisfactory</p> <p>Question #22: 95.2% (310/326); Excellent</p> <p>Six questions were used in this assessment. Of the 6 questions, students met the standard for 5 of them.</p> <p>Students failed to meet the standard for Question #21 “To</p>	<p>Action: Faculty will continue to teach this area in depth and keep up with current changes in industry changes/ developments so that the standard will continue to be met. (09/01/2019)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The last action taken was to cover the topics more in depth for the Fall 2018. Looking at the results we were able to improve in the one area that we did not meet the standard in last year. (02/22/2019)</p> <p>Action: The faculty agree that the lecture material for System components needs to be covered in more depth. (09/01/2018)</p> <p>Action Category: Teaching Strategies</p>

Course SLOs	Assessment Method Description	Results	Actions
		<p>keep a desktop computer or a server powered up when the electricity goes off in addition to protecting against power fluctuations, a(n) ____, which contains a built-in battery, can be used.”.</p> <p>The possible answers were “UPS, Surge suppressor, Voltage controller, and Voltage meter”. The correct response is UPS.</p> <p>Even though the students failed to meet the standard for Question 21 it was an improvement compared to the assessment from last semester (which was 53.1%). (03/02/2018)</p> <p>Faculty Assessment Leader: R. Perkins Faculty Contributing to Assessment: Monica Chaban, Randy Harris, Jay Siddiqui, Ken Sims</p>	
		<p>Semester and Year Assessment Conducted: 2016-17 (Spring 2017)</p> <p>Standard Met? : Standard Not Met</p> <p>Total number of students participating: 288</p> <p>Percentage and Number of Correct Responses</p> <p>Question # 1: 87.2% (251/288); Good</p> <p>Question # 5: 94.8% (273/288); Excellent</p> <p>Question #18: 87.5% (252/288); Good</p> <p>Question #19: 59.7% (172/288); Failing</p> <p>Question #21: 53.1% (153/288); Failing</p> <p>Question #22: 95.8% (276/288); Excellent (06/08/2017)</p> <p>Faculty Assessment Leader: R. Harris Faculty Contributing to Assessment: M. Chaban, R. Perkins, J. Siddiqui</p>	<p>Action: Question 21 will be re-worded in order to make it more clear. (12/15/2017)</p> <p>Action Category: SLO/PLO Assessment Process</p> <p>Action: More time will be spent in lecture to cover the concepts relating to question 19. (12/15/2017)</p> <p>Action Category: Teaching Strategies</p>

ECC: CIS 133:Mashup JavaScript, jQuery and AJAX

Course SLOs	Assessment Method Description	Results	Actions																																												
<p>SLO #2 Incorporating Data in Client-Side Programs - Students will demonstrate their ability to incorporate client side data storage and transmission techniques using cookies, hidden form fields, querystrings, eXtensible Markup language (XML), JavaScript Object Notation (JSON), and Asynchronous JavaScript and XML (AJAX).</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2015-16 (Fall 2015), 2018-19 (Fall 2018)</p> <p>Input Date: 11/12/2013</p>	<p>Laboratory Project/Report - A series of 5 lab assignments during the last half of the semester, designed to test the students ability to design, develop, and implement data transmission and storage programming techniques</p> <p>Standard and Target for Success: It is expected that 75% of the students will score 5 points on each of the 5 assignments</p> <p>Related Documents: Handout 8_cookies.docx Handout 11_XML.docx Handout 12_JSON Handout.docx Handout 13_AJAX.docx Handout_6B_Form transmission.pdf CIS133_SLO 2 Assignments.zip</p>	<p>Semester and Year Assessment Conducted: 2015-16 (Fall 2015)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students completing the course: 19</p> <table> <tr> <th></th><th># of students with 5 points</th><th># of students with less than 5 points</th><th>% of students meeting standard</th></tr> <tr> <td>Lab 10</td><td>19</td><td>2</td><td>89%</td></tr> <tr> <td>Lab 11a</td><td>19</td><td>3</td><td>84%</td></tr> <tr> <td>Lab 11b</td><td>19</td><td>2</td><td>89%</td></tr> <tr> <td>Lab 11c</td><td>19</td><td>1</td><td>95% (12/17/2015)</td></tr> </table> <p>Faculty Assessment Leader: M. Chaban</p> <hr/> <p>Semester and Year Assessment Conducted: 2014-15 (Fall 2014)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students completing the course: 19</p> <table> <tr> <th></th><th># of students with 5 points</th><th># of students with less than 5 points</th><th>% of students meeting standard</th></tr> <tr> <td>JS Lab 6</td><td>16</td><td>3</td><td>84%</td></tr> <tr> <td>JS Lab 7</td><td>19</td><td>0</td><td>100%</td></tr> <tr> <td>JS Lab 8A</td><td>18</td><td>1</td><td>94%</td></tr> <tr> <td>JS Lab 8B</td><td>18</td><td>1</td><td>94%</td></tr> <tr> <td>JS Lab 8C</td><td>18</td><td>1</td><td>94%</td></tr> </table> <p>Lab 6 – Form Transmission could be better. The coding techniques for storing and passing form data from page to page is easy, but for retrieving form data, it is quite difficult, as to obtain the transmitted data, parsing techniques and use of the intrinsic javascript object library come into play.</p> <p>I changed the teaching strategy for cookies (JS Lab 7) and the students were able to grasp the concept.</p>		# of students with 5 points	# of students with less than 5 points	% of students meeting standard	Lab 10	19	2	89%	Lab 11a	19	3	84%	Lab 11b	19	2	89%	Lab 11c	19	1	95% (12/17/2015)		# of students with 5 points	# of students with less than 5 points	% of students meeting standard	JS Lab 6	16	3	84%	JS Lab 7	19	0	100%	JS Lab 8A	18	1	94%	JS Lab 8B	18	1	94%	JS Lab 8C	18	1	94%	<p>Action: The newer browser versions are installed in the labs which make Lab 10- cookie debugging difficult to achieve. Three browsers were tested (IE, Chrome, and Firefox) with varying results. In the end, the instructor wrote a special program for the class to use to aid in debugging. For the next class, this lab needs to be modified and the students be given third party cookie debuggers to use. (12/16/2016)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: Spend more time explaining form transmission parsing techniques using the object library. (12/01/2015)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: Modify COR to allocate more time to data transmission using AJAX, XML and jSON (05/15/2015)</p> <p>Action Category: Curriculum Changes</p>
	# of students with 5 points	# of students with less than 5 points	% of students meeting standard																																												
Lab 10	19	2	89%																																												
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Course SLOs	Assessment Method Description	Results	Actions																				
		<p>Though I briefly touched on JSON, the students were excited to learn how easy it is to incorporate JSON data into their websites.</p> <p>(02/04/2015)</p> <p>Faculty Assessment Leader: M. Chaban</p> <p>Semester and Year Assessment Conducted: 2013-14 (Spring 2014)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students completing the course: 17</p> <table><thead><tr><th></th><th># of students with 5 points less than 5 points</th><th>% of students meeting standard</th></tr></thead><tbody><tr><td>Lab 6B</td><td>16</td><td>1 94%</td></tr><tr><td>Lab 8</td><td>14</td><td>3 82%</td></tr><tr><td>Lab 11</td><td>17</td><td>0 100%</td></tr><tr><td>Lab 12</td><td>17</td><td>0 100%</td></tr><tr><td>Lab 13</td><td>15</td><td>2 88%</td></tr></tbody></table> <p>Lab 8 – data storage techniques using client-side cookies, could be better. The coding techniques for writing cookies is easy, but for retrieving cookies, it is quite difficult, as to decode parsing techniques and use of the javascript object library come into play.</p> <p>(09/05/2014)</p> <p>Faculty Assessment Leader: Monica Chaban</p>		# of students with 5 points less than 5 points	% of students meeting standard	Lab 6B	16	1 94%	Lab 8	14	3 82%	Lab 11	17	0 100%	Lab 12	17	0 100%	Lab 13	15	2 88%	<p>Action: Spend more time explaining parsing techniques using the object library. (09/30/2014)</p> <p>Action Category: Teaching Strategies</p>		
	# of students with 5 points less than 5 points	% of students meeting standard																					
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Lab 13	15	2 88%																					
	<p>Laboratory Project/Report - A series of 4 lab assignments during the last half of the semester, designed to test the students ability to design, develop, and implement data transmission and storage programming techniques.</p> <p>Lab Handout 9A: Books(xml)</p> <p>Lab Handout 9B: Cars(JSON)</p> <p>Lab Handout 9C: TShirt(AJAX)</p> <p>Lab Handout 10: iRock (managing state)</p> <p>Standard and Target for Success: It</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <table><thead><tr><th></th><th># of students in class maximum points</th><th># of students with less than maximum points</th><th>% of students meeting standard</th></tr></thead><tbody><tr><td>Lab 9A</td><td>16</td><td>13 3</td><td>81</td></tr><tr><td>Lab 9b</td><td>16</td><td>12 4</td><td>75</td></tr><tr><td>Lab 9c</td><td>13</td><td>13 0</td><td>100</td></tr><tr><td>Lab 10</td><td>16</td><td>14 2</td><td>88</td></tr></tbody></table> <p>All students met the standard. The improvements made from last year in the area of RSS Feeds proved successful in</p>		# of students in class maximum points	# of students with less than maximum points	% of students meeting standard	Lab 9A	16	13 3	81	Lab 9b	16	12 4	75	Lab 9c	13	13 0	100	Lab 10	16	14 2	88	<p>Action: Develop additional practice exercises in asynchronous data transmissions using AJAX and RSS data feeds. (08/26/2019)</p> <p>Action Category: Teaching Strategies</p>
	# of students in class maximum points	# of students with less than maximum points	% of students meeting standard																				
Lab 9A	16	13 3	81																				
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Lab 9c	13	13 0	100																				
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Course SLOs	Assessment Method Description	Results	Actions																																													
	<p>is expected that 75% of the students will score maximum points on each of the assignments</p> <p>Related Documents: CIS 133 Assessment Assignments for SLO2.zip</p>	<p>Lab 9c. Though there were planned changes to the overall rubric for this SLO, no changes were made. Instead, teaching methods were modified regarding asynchronous data transmission. These methods were incorporated additional practice exercises. The students who did not attain maximum points did not attempt. (12/14/2018)</p> <p>Faculty Assessment Leader: M. Chaban</p> <hr/> <p>Semester and Year Assessment Conducted: 2016-17 (Fall 2016)</p> <p>Standard Met? : Standard Not Met</p> <table><thead><tr><th></th><th># of students participating</th><th># of students with maximum points</th><th># of students with less than maximum points</th><th>% of students meeting standard</th></tr></thead><tbody><tr><td>Lab 9A</td><td>13</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td>85</td><td></td><td>11</td></tr><tr><td>Lab 9b</td><td>13</td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td>85</td><td></td><td>11</td></tr><tr><td>Lab 9c</td><td>13</td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td>62</td><td></td><td>8</td></tr><tr><td>Lab 10</td><td>13</td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td>77</td><td></td><td>10</td></tr></tbody></table> <p>It was discovered late in the semester that 2 students were cheating which affected the rubric.</p> <p>The improvements made from last year in the area of cookie debugging were successful. In this class, some students did not meet the rubric for AJAX, primarily because they could not get a feed from Flickr(new material), because they accessed the Flickr account incorrectly. (02/02/2017)</p> <p>Faculty Assessment Leader: M. Chaban</p>		# of students participating	# of students with maximum points	# of students with less than maximum points	% of students meeting standard	Lab 9A	13				1		85		11	Lab 9b	13				1		85		11	Lab 9c	13				4		62		8	Lab 10	13				2		77		10	<hr/> <p>Action: Need more instruction on RSS feeds. (08/20/2017)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: The SLO definition and its rubric need to change based on the new material used in web development. (06/09/2017)</p> <p>Action Category: SLO/PLO Assessment Process</p>
	# of students participating	# of students with maximum points	# of students with less than maximum points	% of students meeting standard																																												
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Lab 9b	13																																															
1		85		11																																												
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ECC: CIS 140:Data Communications CISCO 1

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
<p>SLO #4 Communications with the Internet - Use microcomputer hardware and software to facilitate communications with the Internet. Describe how microcomputer hardware relates to data communications. Analyze security issues such as protections, detection and correction.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2014-15 (Fall 2014), 2014-15 (Spring 2015), 2015-16 (Fall 2015), 2018-19 (Fall 2018)</p> <p>Input Date: 11/12/2013</p>	<p>Exam/Test/Quiz - Students were given an objective test which included multiple choice, and a matching simulation with Cisco's Packet Tracer Simulator. They were asked to identify procedures to keep User ID, password, and session contents private when establishing remote CLI connectivity with a switch or router to manage it. They also had to contrast a console line with a network line when use the Command Line Interface as it relates to security.</p> <p>Standard and Target for Success: It is expected that 75% of the students will score 70% or higher to meet standards set by Cisco.</p>	<p>Semester and Year Assessment Conducted: 2014-15 (Fall 2014)</p> <p>Standard Met? : Standard Met</p> <p>The outcome was satisfactory, but we will strive to reach the 90% range. Out of 22 taking the exam 86% of them met the standards that Cisco requires. I think continued focus on the security measures related to the Internet (both wired and wireless) will bring better results. (02/02/2015)</p> <p>Faculty Assessment Leader: D. Miller</p>	<p>Action: Discuss and illustrate the results of employing Secure Shell, and WPA2 protection on active networks. (09/14/2015)</p> <p>Action Category: Teaching Strategies</p>
	<p>Exam/Test/Quiz - Students were given an objective test which included multiple choice, and a matching simulation with Cisco's Packet Tracer Simulator. Describe how microcomputer hardware relates to data communications.</p> <p>Standard and Target for Success: It is expected that 75% of the students will score 70% or higher to meet standards set by Cisco.</p>	<p>Semester and Year Assessment Conducted: 2014-15 (Spring 2015)</p> <p>Standard Met? : Standard Met</p> <p>I think the outcome was satisfactory. Out of the 16 students taking the exam 82% met the standards that Cisco requires. I think showing the integration and interaction of hardware and software will continue to illustrate the concept. (09/15/2015)</p> <p>Faculty Assessment Leader: D. Miller</p>	<p>Action: Continue to discuss how microcomputer hardware and software interact to facilitate Internet communication. (05/02/2016)</p> <p>Action Category: Teaching Strategies</p>
	<p>Exam/Test/Quiz - Students were given a multiple choice assessment consisting of an exam with questions pertaining to topics for SLO#4.</p> <p>Standard and Target for Success: It is expected that 85% of students score 70% or above on the total</p>	<p>Semester and Year Assessment Conducted: 2015-16 (Fall 2015)</p> <p>Standard Met? : Standard Met</p> <p>Excellent: =63% (19/30) Good: = 23% (7/30) Satisfactory = 6% (2/30) Unsatisfactory= 3% (1/30) Failing = 3%= (1/30)</p>	<p>Action: Add additional questions to the assessment reflecting topics covering the Internet of things (IoT). (05/08/2016)</p> <p>Action Category: SLO/PLO Assessment Process</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
	<p>Excellent: = 90 or above Good: = 80-89 Satisfactory = 70-79 Unsatisfactory=60-69 Failing = <60</p> <p>Multiple Assessments - Students were given a matching simulation with Cisco's Packet Tracer Simulator, and a multiple choice objective test that required stating methods of accessing the Internet. They were tested on information security measures such as Confidentiality, Integrity, and Availability. Standard and Target for Success: It is expected that 75% of the students will score 70 or higher to meet standards set by Cisco.</p>	<p>93% of students scored at 70% and above for this assessment. (12/20/2015) Faculty Assessment Leader: A. Lee</p> <p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018) Standard Met? : Standard Met The outcomes were very satisfactory. Out of 13 students taking the exam 84% met the standards Cisco requires. I think focusing on major vulnerabilities of the three security issues (Confidentiality, Integrity, and Availability), and showing the integration and interaction of hardware and software will continue to illustrate the Internet concepts. (03/10/2019) Faculty Assessment Leader: D. Miller</p>	<p>Action: Continue to discuss the interaction of hardware and software for purposes of accessing the Internet, and the possible security issues. (08/27/2019) Action Category: Teaching Strategies</p>

ECC: CIS 16:Application Development and Programming Using Visual Basic.Net

Course SLOs	Assessment Method Description	Results	Actions																
SLO #3 Software Development Environment - Identify and describe issues involved with software development including ethical conduct, business strategies, social media use, copyright laws and business practices. Course SLO Status: Active Course SLO Assessment Cycle: 2015-16 (Fall 2015), 2016-17 (Fall 2016), 2018-19 (Fall 2018) Input Date: 11/12/2013	<p>Exam/Test/Quiz - Students analyzed an existing Visual Basic software application for a Bookstore and were told they were going to be given the assignment to duplicate the software application for sale to another small bookstore owner. Minor changes would occur in graphics, animations, and database fields, but otherwise the software application would be identical and have the same user interface and features.</p> <p>In groups, they analyzed 5 specific features in the software application to determine which features could be duplicated simply by copying the code written in their textbooks. They were to identify the specific code (program and page).</p> <p>In groups, they were asked that if they only had 1 day to duplicate the software application, to describe:</p> <ol style="list-style-type: none"> 1) the pros and cons of using the textbook code they identified 2) the merits and drawbacks of collaboration using social media, specifically crowdsourcing <p>They then had to answer T/F questions regarding their analysis:</p> <ol style="list-style-type: none"> 1) A copyright protects artistic work and software development falls into this category 2) Copies may be made of copyrighted work for teaching purposes 	<p>Semester and Year Assessment Conducted: 2016-17 (Fall 2016)</p> <p>Standard Met? : Standard Met</p> <table border="0"> <tr> <td># of students participating</td> <td># of students meeting standard</td> <td># of students not meeting standard</td> <td>% of students meeting standard</td> </tr> <tr> <td>Q/A 2</td> <td>19</td> <td>17</td> <td>89%</td> </tr> </table> <p>The standard was met. Although ethics is already covered in CIS13 it was a good exercise for this class especially with so much code available on the internet. (02/02/2017)</p> <p>Faculty Assessment Leader: M. Chaban</p> <hr/> <p>Semester and Year Assessment Conducted: 2015-16 (Fall 2015)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students completing the course: 27</p> <table border="0"> <tr> <td># of students participating</td> <td># of students meeting standard</td> <td># of students not meeting standard</td> <td>% of students meeting standard</td> </tr> <tr> <td>Q/A 24</td> <td>22</td> <td>2</td> <td>92% (12/19/2015)</td> </tr> </table> <p>Faculty Assessment Leader: M. Chaban</p>	# of students participating	# of students meeting standard	# of students not meeting standard	% of students meeting standard	Q/A 2	19	17	89%	# of students participating	# of students meeting standard	# of students not meeting standard	% of students meeting standard	Q/A 24	22	2	92% (12/19/2015)	<p>Action: The ethics problems should be administered a couple of times during the semester, once at the beginning and again at the end. (08/20/2017)</p> <p>Action Category: Teaching Strategies</p> <hr/> <p>Action: All students met the standard. This SLO is already covered in CIS13 and is not appropriate for a programming class. (12/16/2016)</p> <p>Action Category: SLO/PLO Assessment Process</p>
# of students participating	# of students meeting standard	# of students not meeting standard	% of students meeting standard																
Q/A 2	19	17	89%																
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Q/A 24	22	2	92% (12/19/2015)																

Course SLOs	Assessment Method Description	Results	Actions
	<p>3) It is a violation of copyright laws to use code examples without the publishers permission</p> <p>4) Crowdsourcing can result in communication issues sand possibly missed deadlines</p> <p>5) Open source software is copyrighted</p> <p>Standard and Target for Success: The expected outcome was that the students would understand copyright infringement (covered in CIS13) and issues involved with software collaboration (experienced in the classroom) and 90% would answer the questions correctly.</p> <p>Exam/Test/Quiz - After a lecture involving the risks of copying code from the internet, or other sources, including copyrighted material such as textbooks, students analyzed an existing Visual Basic software application for a Bookstore and were given all the code related to it. They created documentation related to the site architecture (IA diagrams, storyboards, and database designs). They were then told they were going to be given the assignment to create a similar software application for another similar company. Minor changes would occur in graphics, animations, and database fields, but otherwise the software application would be identical and have the same user interface and features.</p> <p>In groups, they were asked to discuss and document the approach they would take:</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Not Met</p> <p>Although ethics was covered twice in the course, not all students understood the risks taken with plagiarism. The students who failed to meet the standard, failed to understand the ethical nature of copying code and the risks involved in doing so. Their solution was to copy the code they were given, make a few changes, and pass it off as original material. (12/14/2018)</p> <p>Faculty Assessment Leader: M. Chaban</p>	<p>Action: Place more focus on ethics and risks and enhance this assignment. Instead of asking questions regarding the ethical nature of their approach, use this as a class project to see how they actually approach developing the solution, then have a summary report produced covering the questions/variations of the questions listed above. (08/26/2019)</p> <p>Action Category: Teaching Strategies</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
	<p>1) the pros and cons of using the code they were given to complete the new website</p> <p>2) the merits and drawbacks of crowdsourcing to complete the assignment</p> <p>Individually they then had to answer 5 questions regarding their analysis:</p> <p>1) A copyright protects artistic work and the approach they submitted falls into this category</p> <p>2) Can copies be made of copyrighted work for teaching and learning purposes</p> <p>3) Is it a violation of copyright laws to use code examples without the publishers permission</p> <p>4) Will crowdsourcing result in communication issues and possibly missed deadlines</p> <p>5) Was the code they were given open source software and copyrighted</p> <p>Standard and Target for Success:</p> <p>The expected outcome was that the students would understand copyright infringement and issues involved with software collaboration and 90% would answer the questions correctly.</p>		

ECC: CIS 19:Internet, Social Networking, and the Web

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
<p>SLO #2 Social Media Campaign - Design and develop the plan for a business social media campaign. Course SLO Status: Active Course SLO Assessment Cycle: 2018-19 (Fall 2018) Input Date: 03/13/2018</p>	<p>Laboratory Project/Report - Multiple Lab Assignments spread throughout the semester to test student comprehension of business social media campaigns. Standard and Target for Success: It is expected that 70% of students will score 70% or above on this SLO.</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018) Standard Met? : Standard Not Met A total of 20 students took this assessment.</p> <p>3 students (15% students) got between 90% and 100%. 8 students (40% students) got between 80% and 89%. 2 students (10% students) got between 70% and 79%. 5 students (25% students) got between 60% and 69%. 2 students (10% students) got between 0% and 59%.</p> <p>Overall, 13 students (65% students) got 70% or above on this SLO. While students were generally able to comprehend the concepts of social media, there were issues in properly designing and developing the plan for a business social media campaign. This is a difficult concept to understand in the sense that real-life work experience is required, and even seasoned Information Technology professionals struggle in choosing the appropriate plan for a business social media campaign. In the future, a guest speaker and/or a field trip to a local company would assist in meeting the standard of this SLO. (12/20/2018) Faculty Assessment Leader: J. Siddiqui</p>	<p>Action: Students seemed to have trouble in distinguishing between multiple forms of social media and their applications towards a business social media campaign. More time and effort needs to be dedicated to clarify the concepts and scope of various social media networks and their associated issues and applications in a business environment. (11/08/2019) Action Category: Teaching Strategies</p>

ECC: CIS 26:Using Microsoft Excel

Course SLOs	Assessment Method Description	Results	Actions
<p>SLO #3 Conditional Formatting - Given an in-class assignment, modify an existing spreadsheet to include conditional numeric formatting involving mathematical states (positive, negative and zero), and conditional logic involving day and time calculations.</p> <p>Course SLO Status: Active Course SLO Assessment Cycle: 2014-15 (Fall 2014), 2014-15 (Spring 2015), 2015-16 (Spring 2016), 2018-19 (Fall 2018) Input Date: 11/12/2013</p>	<p>Laboratory Project/Report - Students are given an assignment to enhance an invoice with external references (VLOOKUPs) to external lists of customers and inventory items. In more rigorous logic operations, they must build nested IF/VLOOKUPs three levels deep, and IF-decisions based on the time of day that orders are received.</p> <p>Standard and Target for Success: Based on percentages, it is expected that 60% (or more) of the class will complete the assignment.</p> <p>Related Documents: CIS26 PUPPIES 3.xlsx</p>	<p>Semester and Year Assessment Conducted: 2014-15 (Spring 2015) Standard Met? : Standard Met 79% of the class (19 out of 24 students) completed the assignment. (09/21/2015) Faculty Assessment Leader: R. Perkins Related Documents: CIS 26Pups3_SP15 SLO 3.xlsx</p> <hr/> <p>Semester and Year Assessment Conducted: 2014-15 (Fall 2014) Standard Met? : Standard Met 94% of the class (17 out of 18 students) completed the assignment. (10/21/2014) Faculty Assessment Leader: D. Barton</p>	<p>Action: Conditional formatting is assessed in this project along with other assignments throughout the semester. I will use a handout where students must apply various conditional formats to the mathematical state of positive, negative, and zero and I will spend more time during lecture to increase the percentage. (01/19/2016) Action Category: Teaching Strategies</p> <hr/> <p>Action: The way the Excel handles and displays the mathematical states of positive, negative, and zero is covered several times in the semester, and is assessed in this project. The 94% completion rate surpasses earlier years, and supports the idea that repeated instruction, in different scenarios, results in better comprehension and retention. (03/24/2015) Action Category: Teaching Strategies</p> <p>Follow-Up: The VLOOKUP function is also discussed in various cases before this assessment, but students must "reach" in this project in order to return data from external references. The day/time component of the assessment requires students to ascertain the values of the three arguments of</p>

Course SLOs	Assessment Method Description	Results	Actions
			the NOW function, and embed the results in an IF function. This semester's students asked many questions, explored various solutions, and developed a wide variety of solutions. (01/27/2015)
	Laboratory Project/Report - Students are given lab project in which they must modify an existing spreadsheet to include conditional numeric formatting involving mathematical states, and conditional logic involving day and time calculations. Standard and Target for Success: It is expected that 85% of the students will score 75% or above on this SLO.	Semester and Year Assessment Conducted: 2018-19 (Fall 2018) Standard Met? : Standard Not Met 2 students got an A 2 Students got a B 2 Students got a C 3 students failed the SLO. 6 out of 9 students received a C or better. The actual result is that 67% of the students scored 75% or above on this SLO. (02/28/2019) Faculty Assessment Leader: N. Ghori	Action: I will re-evaluate the course curriculum to assure it is up to date with current industry practices and technological advances (12/12/2019) Action Category: Curriculum Changes <hr/> Action: Faculty will spend more time in lecture covering topics in depth. (12/12/2019) Action Category: Teaching Strategies
		Semester and Year Assessment Conducted: 2015-16 (Spring 2016) Standard Met? : Standard Not Met 53% of the students scored 75% or above on this SLO. Most of the students who didn't score over 75% got the negative format incorrect involving conditional formatting. (03/03/2016) Faculty Assessment Leader: R. Perkins	Action: I will develop a handout with more conditional formatting examples to give the students more practice. (02/11/2017) Action Category: Teaching Strategies

ECC: CIS 28:Database Management using Microsoft Access

Course SLOs	Assessment Method Description	Results	Actions
<p>SLO #2 Table Structures - Design, create, and modify table structures and relationships. Modify tables to include default values, validation rules, input masks, and indices.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2013-14 (Spring 2014), 2016-17 (Spring 2017), 2018-19 (Fall 2018)</p> <p>Input Date: 11/12/2013</p>	<p>Exam/Test/Quiz - Students will be given a practical exam where they start with an empty (no objects) database file. The students will then create new table(s), add fields, modify fields, set primary keys, modify field properties, relate the tables and set referential integrity.</p> <p>Standard and Target for Success: It is expected that a minimum of 75% of the students will score at least satisfactorily (70% or higher) on this SLO. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80% Unsatisfactory: >= 60% and < 70% Failing: < 60%</p>	<p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 23</p> <p>Excellent: 34.8 % (8/23)</p> <p>Good: 13.0% (3/23)</p> <p>Satisfactory: 39.1% (9/23)</p> <p>Unsatisfactory: 13.0% (3/23)</p> <p>Failing: 0.0% (0/23)</p> <p>87.0% of the class scored satisfactorily or above. (01/05/2019)</p> <p>Faculty Assessment Leader: R. Harris</p>	<p>Action: Continue developing multimedia examples and exercises on creating and modifying database tables that lend themselves to different learning styles. (06/07/2019)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The refinement of the demonstrations to include additional multimedia elements have continued to result in high success rates. The success rate for this evaluation vs. the last time it was evaluated was 87.0% (current) vs. 88.5% (former). (02/22/2019)</p>
		<p>Semester and Year Assessment Conducted: 2016-17 (Spring 2017)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 26</p> <p>Excellent: 38.5 % (10/26)</p> <p>Good: 30.8% (8/26)</p> <p>Satisfactory: 19.2% (5/26)</p> <p>Unsatisfactory: 7.7% (2/26)</p> <p>Failing: 3.8% (1/26)</p> <p>88.5% of the class scored satisfactorily or above. (06/08/2017)</p> <p>Faculty Assessment Leader: R. Harris</p>	<p>Action: Give additional examples and exercises on creating and modifying database tables. (08/28/2017)</p> <p>Action Category: Teaching Strategies</p> <p>Follow-Up: The additional lab exercises and examples seemed to have helped as the percentage of "successful" (excellent, good or satisfactory) students increased from 78.25% to 88.5%. (06/29/2017)</p>
		<p>Semester and Year Assessment Conducted: 2014-15 (Fall 2014)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 17</p> <p>Excellent: 52.94 % (9/17)</p> <p>Good: 29.41% (5/17)</p>	<p>Action: As 100% of the class met the standard, more rigorous assignments and evaluation methods will be devised. (05/15/2015)</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
		<p>Satisfactory: 17.65% (3/17) Unsatisfactory: 0.00% (0/17) Failing: 0.00% (0/17)</p> <p>100.00% of the class scored satisfactorily or above (01/28/2015) Faculty Assessment Leader: R. Harris</p>	<p>Action Category: Teaching Strategies</p> <p>Follow-Up: As expected, student scores remain high. I will be implementing a more in-depth evaluation method for future semesters. (02/09/2015)</p>
		<p>Semester and Year Assessment Conducted: 2013-14 (Spring 2014) Standard Met? : Standard Met Total number of students participating: 23 Excellent: 56.5 % (13/23) Good: 13.0% (3/23) Satisfactory: 8.75% (2/23) Unsatisfactory: 8.75% (2/23) Failing: 13.0% (3/23)</p> <p>78.3% of the class scored satisfactorily or above. (08/07/2014) Faculty Assessment Leader: Randy Harris</p>	<p>Action: Give additional examples and exercises on creating and modifying database tables. (12/04/2014) Action Category: Teaching Strategies</p>

ECC: CIS 40:Personal Computer Support and Networking

Course SLOs	Assessment Method Description	Results	Actions
<p>SLO #2 PC Boot Problems - Students will be able to solve a PC boot problem, given a set of circumstances that occur once the power button is pressed. Using a BIOS software troubleshooting flowchart, they will be able to determine which BIOS process is causing the failure.</p> <p>Course SLO Status: Active</p> <p>Course SLO Assessment Cycle: 2014-15 (Fall 2014), 2016-17 (Fall 2016), 2018-19 (Fall 2018)</p> <p>Input Date: 11/12/2013</p>	<p>Exam/Test/Quiz - Student assessments generally consisted of three areas: laboratory assignments, quizzes and exams. In class demonstration and articulation of concepts is also used to assess the student's progress with comprehension.</p> <p>Standard and Target for Success: It is expected that 70 % of students score 70% or above on the total.</p> <p>Excellent: =90 or above Good: = 80-89 Satisfactory = 70-79 Unsatisfactory=60-69 Failing = <60</p>		
	<p>Homework Problems - Students were provided with Oracle VM VirtualBox software to install a virtualized Windows 7 operating system and identify and exam its boot process (including CMOS, BIOS and POST related problems).</p> <p>Standard and Target for Success: It is expected that a minimum of 75% of the students will score at least satisfactorily (70% or higher) on this SLO. See below for rubric/definition of satisfactory.</p> <p>Excellent: >= 90% Good: >= 80% and < 90% Satisfactory: >= 70% and < 80%</p>	<p>Semester and Year Assessment Conducted: 2016-17 (Fall 2016)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 31</p> <p>Excellent: 19.35 % (6/31) Good: 61.29 % (19/31) Satisfactory: 12.90 % (4/31) Unsatisfactory: 3.22 % (1/31) Failing: 3.22 % (1/31)</p> <p>93.56 % of the class scored satisfactorily or above.</p> <p>The additional homework and demonstrations on installing and running virtual Windows OS and examination of its boot and POST process did help increase success rates. It should be noted that the students who scored less than satisfactory are also the ones who had attendance</p>	<p>Action: Re-evaluate the need for additional homework assignments as they have proven to increase comprehension. (09/18/2017)</p> <p>Action Category: Teaching Strategies</p> <p>Action: Continue to follow current developments and advances in the industry assuring the class studies are up to date. (09/18/2017)</p> <p>Action Category: Teaching Strategies</p>

<i>Course SLOs</i>	<i>Assessment Method Description</i>	<i>Results</i>	<i>Actions</i>
	<p>Unsatisfactory: $\geq 60\%$ and $< 70\%$ Failing: $< 60\%$</p> <p>Project - Students are given a project where given a set of problems, they are to identify the potential causes and solutions of the problems. Additionally, students are to create a flow chart with various PC startup problems and solutions to those problems.</p> <p>Standard and Target for Success: It is expected that 75% of the students will score 70% or above on this SLO.</p> <p>Related Documents: CIS 40 Project SLO 2.zip CIS 40 Project SLO 2 Rubric.pdf</p>	<p>problems and/or did not complete homework assignments. (12/06/2016)</p> <p>Faculty Assessment Leader: R. Alizadeh</p> <p>Semester and Year Assessment Conducted: 2018-19 (Fall 2018)</p> <p>Standard Met? : Standard Met</p> <p>Total number of students participating: 16</p> <p>Excellent: 50.00% (8/16) Good: 6.25 % (1/16) Satisfactory: 25.00% (4/16) Unsatisfactory: 12.50 % (2/16) Failing: 6.25 % (1/16)</p> <p>93.75 % of the class scored satisfactorily or above.</p> <p>Note that 2 students in this class chose not to do the assignment and received a 0 on the project. These students scores were not counted as participating. (02/05/2019)</p> <p>% of Success for this SLO: 80</p> <p>Faculty Assessment Leader: Khai Lu</p>	<p>Action: Continue to follow current developments and update the assignment based on current technologies and best practices in the industry (12/18/2019)</p> <p>Action Category: Teaching Strategies</p>