

Unit Assessment Report - Four Column

Guam Community College Computer Networking AS

Mission Statement: To prepare and have people in the industry trained and certified in computer repair, networking and telecommunication.

Vision Statement: To partner with the various government and private business by providing current certified courses for the computer repair, networking and telecommunication career fields.

| Student Learning Outcomes (SLOs) | Means of Assessment & Criteria (Written in %) / Tasks | Data Collection Status/Summary of Results | Use of Summary Result & Implementation Status |
|---|---|---|--|
| <p>Computer Networking AS - AY05-06 CONFIGURE NETWORK SYSTEMS - Students will be able to install and configure Computer Network Systems.</p> <p>Start Date: 03/31/2006</p> <p>End Date: 03/31/2007</p> <p>SLO Status: Complete</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Teacher evaluated & administered skill test will be used to evaluate student's performance.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: Lab/Skills Test</p> <p>Criterion (Written in %): 100% students will complete skill test with a score of 75% or better.</p> <p>Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis to ensure that program is effective.</p> <p>The document link can only accept one document, therefore, the skills test requirement based on the March 9, 2007 CFS, were uploaded under the Summary of Results, Related Data tab.</p> <p>Task Name:</p> | <p>03/06/2007 - Fall 2006, Eleven (11) students enrolled in CCNA I, Eight (8) students enrolled in CCNA II and Eight (8) enrolled in CCNA IV. These students completed the skill test with a score of 75% or better.</p> <p>Summary of Result Type: Criterion Met</p> <p>Data Collection Status/Summary of Result Status: Closed</p> <p>Budget Implications: No budget impact</p> <p>Budget Related Performance Indicators: 1</p> | <p>03/19/2007 - We will be repeating the same cycle with this SLO using the same percentages.</p> <hr/> <p>03/06/2007 - Criteria has been met</p> <hr/> |
| <p>Computer Networking AS - AY05-06 PASS THE NATIONAL CERTIFICATION TEST - Students will be able to pass the National Certification tests in Computer Repair & Networking Administration.</p> <p>Start Date: 03/31/2006</p> <p>End Date: 03/31/2007</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Local and National test will be utilized to assess the successful completer of the program.</p> <p>Criterion (Written in %): 50% of students who completes the program will pass the certification exams;</p> | <p>03/06/2007 - Fall 2006, Nine (9) students enrolled in EE241-CAT5 Wiring and Testing. These students took the ETA Exam and 5 passed with a score of 76% or higher. An average score of 86%. Six (6) students enrolled in Fiber Optic Installation. These students took the ETA exam and all passed with a score of 76% or higher. An average of 91%. Passing score was develop by Industrial experts within the telecommunication</p> | <p>03/06/2007 - Criteria has been met. The average shows that students are meeting above standard scores set by the industries. The students that passed these certifications are confident in doing the task set in the SLO. Industries are requiring</p> |

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| <p>SLO Status: Complete</p> | <p>(Electronics Technician Association with 75% score or higher). Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis to ensure that program is effective.</p> | <p>skills. Students are required to take the test upon completion of EE241 & EE243. Summary of Result Type: Distinction/strength Data Collection Status/Summary of Result Status: Closed</p> | <p>these certification for students having to be employed with their company.</p> |
| <p>Computer Networking AS - AY05-06 PRODUCTIVE TECHNICIAN IN THE TELECOMMUNICATIONS INDUSTRY. - Students will communicate the values of an effective and productive technician in the telecommunication industry. Start Date: 03/31/2006 End Date: 03/31/2007 SLO Status: Complete</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Exit survey will be conducted upon completion of the Program. Criterion (Written in %): 80% of students will indicate that they will be effective & productive technicians. Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis to ensure that program is effective.</p> | <p>03/06/2007 - No completers under this program. Summary of Result Type: Problem/limitation Data Collection Status/Summary of Result Status: Closed Budget Implications: No budget impact</p> | <p>03/22/2007 - Program has been revised to update for industries. We are incorporating courses such as IT Essentials & Cisco Security. Expected completers - Spring 2008 03/06/2007 - No completers under this programs.</p> |
| <p>Computer Networking AS - AY07-08 SLO#1 CONFIGURE AND REPAIR NETWORK SYSTEMS - AY07-08 Students will be able to install, configure and repair Computer Network System. Program Level SLO Domain Types: SLO-Behavioral outcomes Start Date: 10/01/2007 End Date: 03/10/2009 SLO Status: Completed the Assessment Cycle</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Teacher evaluated & administered skill test will be used to evaluate student's performance. Type of Artifact/Instrument/Rubric/Method/Tool: Lab/Skills Test Criterion (Written in %): 100% students will complete skill test with a score of 80% or better. Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis</p> | <p>10/04/2007 - Students were given scenario to configure a network and after successful configuration, problems were inserted and students were required to solve them. Summary of Result Type: Criterion Met Data Collection Status/Summary of Result Status: Program Level Data Collection Status Budget Implications: No budget impact</p> | |

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| <p>Program Level SLO Industry National Certification: N/A</p> | <p>to ensure that program is effective.</p> <p>Students are required to complete the SLO. If met, students will move on. Our success rate for students meeting the SLO are successful. Enrollment has increased for the past three years. We are waiting to start certain courses in our program. Our Computer Networking program is in demand in both government and private industries.</p> <hr/> <p>Task Name: Implementation Status (SP08) Network configuration and problem solving.</p> <p>Task Description: Configure Network - Students were given scenario to configure a network and after successful configuration, problems were inserted and students were required to solve them.</p> | | |
| <p>Computer Networking AS - AY07-08 SLO#2 PASS THE LOCAL & NATIONAL CERTIFICATION TEST - AY07-08 Students will be able to pass Local & National Certification test in Computer repair & Networking Administration.</p> <p>Program Level SLO Domain Types: SLO-Cognitive outcomes</p> <p>Start Date: 10/01/2007</p> <p>End Date: 03/10/2009</p> <p>SLO Status: Not currently being assessed</p> <p>Program Level SLO Industry National Certification: Yes</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Local and National test will be utilized to assess the successful completer of the program.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: National & International Certification Exam</p> <p>Criterion (Written in %): 50% of students who completes the program will pass the certification exams; (Electronics Technician Association with 80% score or higher).</p> <p>Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis to ensure that the program is effective.</p> <p>Students are required to complete the SLO.</p> | <p>10/04/2007 - Students were required to complete the SLO. If met, students wil move on. Our success rate for students emeting the SLO are successful. Enrollment has increased for the past three years. We are waiting to start certain courses in our program. Our Computer Networking program is in demand in both government and private industries. CAT5 Wiring & Testing Certificatioon Test - 44 students took the test, 38 passed and are certified technicians. Fiber Optic Installer Certification Test - 19 students took the test, 17 pased and are certified technicians.</p> <p>Summary of Result Type: Criterion Met</p> <p>Data Collection Status/Summary of Result Status: Program Level Data Collection Status</p> | |

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| | <p>If met, students will move on. Our success rate for students meeting the SLO are successful. Enrollment has increased for the past three years. We are waiting to start certain courses in our program. Our Computer Networking program is in demand in both government and private industries.</p> <hr/> <p>Task Name: Implementation Status (SP08)</p> <p>Electronics Technicians Association - CAT5 Wiring & Testing Certification Test and Fiber Optic Installer Certification Test.</p> <p>Task Description: CAT5 Wiring & Testing Certification Test - 44 students took the test, 38 passed and are certified technicians. Fiber Optic Installer Certification Test - 19 students took the test, 17 passed and are certified technicians.</p> | <p>Budget Implications: No budget impact</p> | |
| <p>Computer Networking AS - AY07-08 SLO#3 PRODUCTIVE TECHNICIAN IN THE TELECOMMUNICATIONS INDUSTRY. - AY07-08 Students will communicate the values of an effective and productive technician in the telecommunication</p> <p>Program Level SLO Domain Types: SLO-Affective outcomes</p> <p>Start Date: 10/01/2007</p> <p>End Date: 03/10/2009</p> <p>SLO Status: Not currently being assessed</p> <p>Program Level SLO Industry National Certification: Yes</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Exit survey will be conducted upon completion of the Program.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: Exit Interviews/Survey</p> <p>Criterion (Written in %): 85% of students will indicate that they will be effective & productive technicians. Based on the rating scale in the Exit Survey, scale of 3-4, will indicate that students will be effective & productive technicians.</p> <p>Anticipated Use of Assessment Result: Will evaluate the results on a yearly basis to ensure that program is effective.</p> | <p>10/04/2007 - Fall 07 - 38 GTA employees are certified for CAT5 Wiring & Testing and 17 are certified for Fiber Installer. Employees from Dick Pacific, Citizens Bank and Kindo Electric are also certified for CAT5 Wiring & Testing and Fiber Installer. Employees from NAVCOMTELSTA took the Re-Certification course to update their ETA certifications.</p> <p>Summary of Result Type: Criterion Met</p> <p>Data Collection Status/Summary of Result Status: Program Level Implementation Status</p> <p>Budget Implications: No budget impact</p> | |

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| | <p>Students are required to complete the SLO. If met, students will move on. Our success rate for students meeting the SLO are successful. Enrollment has increased for the past three years. We are waiting to start certain courses in our program. Our Computer Networking program is in demand in both government and private industries.</p> <hr/> <p>Task Name: Implementation Status (SP08) Effective and Productive Technicians - Instructor administers skills test.</p> <p>Task Description: Fall 07 - 38 GTA employess are certified for CAT5 Wiring & Testing and 17 are certified for Fiber Installer. Employees from Dick Pacific, Citizens Bank and Kindo Electric are also certified for CAT5 Wiring & Testing and Fiber Installer. Employees from NAVCOMTELSTA took the Re-certification course to update their ETA certifications.</p> | | |
| <p>Computer Networking AS - CONFIGURE AND REPAIR NETWORK SYSTEMS - SLO#1 FA10-SP12: Students will be able to install, configure and repair Computer Network System.</p> <p>Program Level SLO Domain Types: SLO-Behavioral outcomes</p> <p>Start Date: 10/11/2010</p> <p>End Date: 03/12/2012</p> <p>SLO Status: Currently being assessed</p> <p>Program Level SLO Industry National Certification: Yes</p> <p>Type of Industry National Certification:</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Teacher evaluated & administered skill test will be used to evaluate student's performance.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: Lab/Skills Test</p> <p>Criterion (Written in %): 100% students will complete skill test with a score of 80% or better.</p> <p>Anticipated Use of Assessment Result: The results will be used as an indicator that the program is producing students that can immediatly impact the workforce, negative results will allow us to adjust our teaching methods to achieve the desirable outcomes.</p> | <p>11/14/2011 - On the dates listed, a fulltime faculty member conducted these skills based exams and the results are as follows; On 12/28/10, N= 21, of the 21 students who took the skills based exam 17 students passed with a 80% or better. (21/17 = 80%)</p> <p>On 12/10/10, N= 13, of the 13 students who enrolled and took the skills based exam 12 students passed with an 80% or better, only 1 scored below 80%. (13/12 = 92%)</p> <p>Summary of Result Type: Criterion Not Met</p> <p>Data Collection Status/Summary of Result Status: Program Level Data Collection Status</p> <p>Budget Implications: Over \$500</p> | <p>01/20/2012 - 1</p> <hr/> <p>11/14/2011 - The Criterion for this SLO was not met. After further evaluation of the students it was found that the 3 others were close to the 80%. These students missed some citical hands on classes and or simply need more time spent on the particular parts of the lab that they did not do well in.</p> <p>Implementation Status: 03/07/2012 - The Instructor remains accessible to all</p> |

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| <p>CCENT, CCNA, CCNP Program SLO/AUO/SSUO Plan reflects/incorporates: Institutional Strategic Master Plan (ISMP) Notes from the pull/drop down list This SLO ties into ISMP goals #1 and #2</p> | <p>Budget-Related Proposed Outcomes: To accomodate the urgent needs as per the minutes of the advisory committee to infuse in the computer networking program.</p> | <p>Notes: Keep the equipment updated to maintain the high level of hands on that the course produces. Budget Related Performance Indicators: 2. To show how many people graduate with the computer networking associates degree annually. Related Documents: ee266slo2[1].pdf ee268skills[1].pdf</p> | <p>Implementation Status: students and has continued to have open lab days where students are able to come in and receive more help if needed. The implementation has been carried out. 11/14/2011 - More time or extended time is normally offer during Saturdays and class off days to catch up or for students to come in and take advantage of one to one instruction from instructors.</p> |
| | <p>Artifact/Instrument/Rubric/Method/Tool Description: Teacher evaluated & administered skill test will be used to evaluate student's performance. Type of Artifact/Instrument/Rubric/Method/Tool: Lab/Skills Test Criterion (Written in %): 100% students will complete skill test with a score of 80% or better. Anticipated Use of Assessment Result: Results will be used to assist the department in reviewing course offerings and adjusting as necessary to meet or exceed goal requirments. Budget-Related Proposed Outcomes: 2.To increase the number of students graduating in the computer networking program annually.</p> | | |
| | <p>Artifact/Instrument/Rubric/Method/Tool Description: Skills based exam administered by instructor. Hands on skills test created by Cisco Acdamey.</p> | | |

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| | <p>Type of Artifact/Instrument/Rubric/Method/Tool: Lab/Skills Test</p> <p>Criterion (Written in %): 70% of students will get an 80% or better.</p> <p>Anticipated Use of Assessment Result: Snap shot of students prepared to meet the technical demands of industry. If criterion not met program will need to modify or adjust class to meet the SLO.</p> <p>Budget-Related Proposed Outcomes: Program Goal # 3.</p> <hr/> <p>Task Name: Network configuration and problem solving.</p> <p>Task Description: Configure Network - Students were given scenario to configure a network and after successful configuration, problems were inserted and students were required to solve them.</p> | | |
| <p>Computer Networking AS - PASS THE LOCAL & NATIONAL CERTIFICATION TEST - SLO#2 FA10-SP12: Students will be able to pass Local & National Certification test in Computer Repair & Networking Administration.</p> <p>Program Level SLO Domain Types: SLO-Cognitive outcomes</p> <p>Start Date: 10/11/2010</p> <p>End Date: 03/12/2012</p> <p>SLO Status: Currently being assessed</p> <p>Program Level SLO Industry National Certification: Yes</p> <p>Type of Industry National Certification: Computer Repair & Networking</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Local and National test will be utilized to assess the successful completer of the program. Electronics Technician Association (DCI Data Cabling Installer) Certification Electronics Technician Association (FOI Fiber Optic Installer) Certification Cisco Networkng Academy (IT I & II) final exams</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: National & International Certification Exam</p> <p>Criterion (Written in %): 50% of students who completes the program will pass the certification exams; (Electronics Technician Association with 80% score or higher).</p> | <p>05/03/2011 - National Certification tests are administered by the Certified Administrator who is a fulltime Instructor. These tests are not required to get credit for EE242 and EE243, but are highly encouraged. Results of the Exams are as follows : 10/11-18/10, a Data Cabling certification exam was administered to 7 of 8 students, N = 7 of the 7 students who took the national certification 6 recieved a score of 80% or better, while 1 student recieved a 79%. (N = 7, 7/6 = 85% passed the certification exam) 2/11-25/11 a Fiber Optic certification exam was administered to 10 of 10 students, N = 10 of the 10 students who took the national certification 10 recieved a score of 80% or better.(N = 10, 10/10 = 100% passed the certification exam),</p> <p>Summary of Result Type: Criterion Met</p> <p>Data Collection Status/Summary of Result</p> | <p>10/04/2011 - The criterion of this SLO has been met, results however are delayed and need to be reestablish. The Cisco classes, which are a major part of the Networking Program prepares students to take National Certification test, but it is not a requirement. We can only collect data from students who come back to the college and state that they've passed a national exam. With the ETA certifications the majority of the student in the Data and Fiber classes are predominantly industry workers and are required by thier respective companies to take the test and this is often the case with many other participants</p> |

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| <p>Administration Program SLO/AUO/SSUO Plan reflects/incorporates: Institutional Strategic Master Plan (ISMP) Notes from the pull/drop down list SLO' reflects ISMP goals #1,#2 and #4.</p> | <p>Anticipated Use of Assessment Result: The results will be used as a performance indicator on the effectiveness of curriculum and maybe used to modify if results do not meet the criterion.</p> <p>Budget-Related Proposed Outcomes: To accomodate the urgent needs of the community as per the minutes of the advisory committee to infuse in the computer networking program.</p> | <p>Status: Program Level Data Collection Status</p> <p>Budget Implications: Over \$500</p> <p>Notes: In an effort to support the outcomes of this class, the department must procure the necessary supplies to accomodate the hands on portion of the class. The cost for supplies and materials per class is dependant on the enrolled number.</p> <p>Budget Related Performance Indicators: 3.To meet the needs of the community</p> <p>Related Documents: Tracdat data.xlsx FO ETA 3-7-11.xlsx</p> | <p>in the two classes.</p> <p>Implementation Status: 10/07/2011 - Processing of these tests needs to be reviewed and a solution needs to be resolved regarding the delay between College and ETA.</p> <hr/> <p>05/03/2011 - Results exceed the Criterion, Process of the testing and other related support mechanism need to be resolved so that the information the College recieves is timely.</p> <p>Implementation Status: 03/07/2012 - We have communicated with the certifying body for the National Certification tests. They have agreed to assist us in anyway possible to try to eliminate the lag of information recieved. In our finding however, The College itself has delayed processing of these documents for various reasons from lack of funding or payments collected prior to the actual documents being sent off. In general however this process has been reviewed and we have been able to fix some of the issues.</p> <p>10/07/2011 - Needs to research more on new certifications related to industry, while maintaing these certification offerings.</p> |

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| | <p>Artifact/Instrument/Rubric/Method/Tool Description: Local and National test will be utilized to assess the successful completer of the program. Electronics Technician Association (DCI Data Cabling Installer) Certification Electronics Technician Association (FOI Fiber Optic Installer) Certification Cisco Networikng Academy (IT I & II) final exams</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: National & International Certification Exam</p> <p>Criterion (Written in %): 50% of students who completes the program will pass the certification exams; (Electronics Technician Association with 80% score or higher).</p> <p>Anticipated Use of Assessment Result: DCI and FOI certifications are in demand at the moment and has been for many years, We have been asked by industry about other national certification courses that maybe be more in depth or more details such as Bicsi Communication Design classes, VOIP, CCTV, Security and Fire systems. These will need to be activily researched and brought to the attention of the Advisory Committee for oppinions or suggestions.</p> <p>Budget-Related Proposed Outcomes: Try to research and find funding to increase National Certification offerings as it related to this Program.</p> | | |
| | <p>Task Name: Implementation Status (SP08)Electronics Technicians Association - CAT5 Wiring & Testing Certification Test and Fiber Optic Installer Certification Test.</p> | | |

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| | <p>Task Description: CAT5 Wiring & Testing Certification Test - 44 students took the test, 38 passed and are certified technicians. Fiber Optic Installer Certification Test - 19 students took the test, 17 passed and are certified technicians.</p> | | |
| <p>Computer Networking AS - PRODUCTIVE TECHNICIAN IN THE TELECOMMUNICATIONS INDUSTRY. - SLO#3 FA10-SP12: Students will communicate the values of an effective and productive technician in the</p> <p>Program Level SLO Domain Types: SLO-Affective outcomes</p> <p>Start Date: 10/11/2010</p> <p>End Date: 03/12/2012</p> <p>SLO Status: Currently being assessed</p> <p>Program Level SLO Industry National Certification: N/A</p> <p>Program SLO/AUO/SSUO Plan reflects/incorporates: Institutional Strategic Master Plan (ISMP)</p> <p>Notes from the pull/drop down list This SLO ties into ISMP goal #1</p> | <p>Artifact/Instrument/Rubric/Method/Tool Description: Exit survey will be conducted upon completion of the Program.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: Exit Interviews/Survey</p> <p>Criterion (Written in %): 85% of students will indicate that they will be effective & productive technicians. Based on the rating scale in the Exit Survey, scale of 3-4, will indicate that students will be effective & productive technicians.</p> <p>Anticipated Use of Assessment Result: Does not relate to Proposed Outcomes.</p> <p>Budget-Related Proposed Outcomes: Does not relate to Proposed Outcomes.</p> | <p>11/03/2011 - The Department failed to conduct survey from the 3 graduating students of SP '11. We have sent a request to respond to the SLO to all three and received 1 reply. We also surveyed one member of the Electronics Advisor Board, on as to how our program impacted the employees in his company. Please note the the respondant has the largest number of employees taking our Networking program through Apprenticeship.</p> <p>Summary of Result Type: Criterion Not Met</p> <p>Data Collection Status/Summary of Result Status: Program Level Data Collection Status</p> <p>Budget Implications: Under \$500</p> <p>Notes: Keep track and Administer the surveys when the program is completed.</p> <p>Budget Related Performance Indicators: 2.To show how many people graduate with the computer networking associates degree annually.</p> <p>Related Documents: Apprenticeship Program Feedback.doc RE FW AS in Computer Networking - Program Feedback - 2ND Request.htm</p> | <p>11/18/2011 - Because the survey was not conducted properly with graduates and may have not captured sufficient evidence to support the SLO, We asked one of our Advisory Board members to send us some feedback on how the program has impacted his place of Business. This company has about 50 employees in our program and feedback from them would support this SLO.</p> <p>Implementation Status: 03/07/2012 - This SLO was not documented properly and the Instructor for the Capstone course was unaware of the exit survey that needed to be conducted. The Department has agreed that these students will take the exit survey upon completion of EE275 as this is the last class for student graduating out of the Networking program.</p> <p>11/18/2011 - The Data collection for this SLO needs to be carefully planned so to not miss the surveys when they are due. A reminder notice and or midterm audit of Assessment should be</p> |

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| | <p>Artifact/Instrument/Rubric/Method/Tool Description: Exit survey will be conducted upon completion of the Program.</p> <p>Type of Artifact/Instrument/Rubric/Method/Tool: Exit Interviews/Survey</p> <p>Criterion (Written in %): 85% of students will indicate that they will be effective & productive technicians. Based on the rating scale in the Exit Survey, scale of 3-4, will indicate that students will be effective & productive technicians.</p> <p>Task Name: Implementation Status (SP08)Effective and Productive Technicians - Instructor administers skills test.</p> <p>Task Description: Fall 07 - 38 GTA employess are certified for CAT5 Wiring & Testing and 17 are certified for Fiber Installer. Employees from Dick Pacific, Citizens Bank and Kindo Electric are also certified for CAT5 Wiring & Testing and Fiber Installer. Employees from NAVCOMTELSTA took the Re-certification course to update their ETA certifications.</p> | | <p>Implementation Status: conducted by Department to remind them to conduct the surcvey before the graduates exit their last Networking class.</p> |
| <p>Computer Networking AS - 2011-2012 Catalog SLO#1 - SLO#1 FA-SP: Upon successful completion of the AS in Computer Networking program, students will be able to install configure, and repair Computer network systems.</p> | | | |

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| <p>Program Level SLO Industry National Certification: N/A</p> | | | |
| <p>Computer Networking AS - 2011-2012 Catalog SLO#2 - SLO#2 FA-SP: Upon successful completion of the AS in Computer Networking program, students will be able to pass local and national certification tests in computer repair, telecommunication, & network administration.</p> | | | |
| <p>Program Level SLO Industry National Certification: N/A</p> | | | |
| <p>Computer Networking AS - 2011-2012 Catalog SLO#3 - SLO#3 FA-SP: Upon successful completion of the AS in Computer Networking program, students will be able to communicate the values of an effective and productive technician in the telecommunications and computer networking industry.</p> | | | |
| <p>Program Level SLO Industry National Certification: N/A</p> | | | |