**Years:** 2015-2016 **Name of Program:**  Information Systems Cybersecurity

| A. Outcomes(s)  Results expected in this department/program | B. Measure(s)  The instrument or process used to measure results | C. Target(s) The level of success expected |
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| 1.) Demonstrate proficiency in routing protocols (ITCC 1374-CCNA 2) | Final Grade in ITCC 1374. | Appropriate Rubric (Min. 70% Assessment). |
| 2.) Demonstrate proficiency with Cybersecurity policies learned throughout the course by successfully developing a security policy for a small business of 20 or fewer employees. (ITSY 2300-Operating System Security) | Final Project in ITSY 2300. | Appropriate Rubric (Min. 70% Assessment) |
| 3.) Demonstrate proficiency in installation and configuration of Linux operating systems. (ITSC 1316-Linux Installation and Configuration) | Lab #6 in ITSC 1316. | Appropriate Rubric (Min. 70% Assessment) |
| 4.) Demonstrate proficiency in implementing a Microsoft Server 2016 environment by implementing remote access policies. (ITMT 1372-Windos Server 2016 Server Installation) | Lab in ITMT 1372 | Appropriate Rubric (Min. 70% Assessment) |
| 5.) Demonstrate proficiency in planning and implementing a Microsoft Windows Server 2008 environment by applying security to a Microsoft Active Directory Network, including modifying account policies. (ITMT 1373-Windows Server 2016 Configuration.) | Lab in ITMT 1373 | Appropriate Rubric (Min. 70% Assessment) |
| 6. Demonstrate increase in program completion | IRO CBM document | An increase of at least 10 more completers from 2017 |

Implementation of the action plan laid out in the CIP Cycle 1 Table will begin during the next academic year.

**CIP Cycle 1 Table**

| Outcomes  (From Outcomes, Measures & Targets Table)  Results expected in this program/department | Action Plan (Review Cycle Year 5)  Based on analysis, identify action(s) to be taken to accomplish outcome. | Implement Action Plan  (Review Cycle Year 1)  Implement action plan and collect data. | Results Summary  (Review Cycle Year 2)  Summarize collected data. | Findings  (Review Cycle Year 2)  What does data say about outcome(s)? |
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| 1.) Demonstrate proficiency in routing protocols (ITCC 1374-CCNA 2) | Computer Networking faculty have chosen to consolidation three AAS degrees into one degree with three concentration/specialization track options. This will be implemented Fall 2017. |  | Fall 2012, Spring 2013, Summer 2013: Skills Test- 114 out of 116 (98%) met std. Average=84.1, High=100, Low=0.  Final- 108 out of 116 (93%) met std. Average=78.6, High=100, Low=0.  Fall 2013, Spring 2014: Skills Test-128 of 134 (96%) met std. Average=90.9, High=100, Low=0.  Final- 115 out of 134 (86%) met std. Average=78.6, High=100, Low=0.  Fall 2014, Spring 2015 and Summer 2015  Skills Test-71 of 92 met std. Average=83, High=100, Low=0.  Final- 68 out of 92 met std. Average=74, High=100, Low=0.  ----------------------------------  Fall 2015, Spring 2016, Summer 2016  Skills Test-124 of 126 met std. Average=88, High=100, Low=0.  Final- 96 out of 126 met std. Average=74, High=100, Low=0. | 2012-2013 Academic Year: Students met standard.  2013-2014 Academic year: Students met standard.  2014-2015 Academic Year: Students met standard.  2015-2016 Academic Year: Students met standard. |
| 2.) Demonstrate proficiency with Cybersecurity policies learned throughout the course by successfully developing a security policy for a small business of 20 or fewer employees. (ITSY 2300-Operating System Security |  |  | Fall 2012: 25 out of 29 (86%) met std. Average=76.7, high=100, Low=0.  Spring 2013: 22 out of 26 (85%) met std. Average=86.5, High=100, Low=0.  Fall 2013: 37 out of 53 (70%) met std. Average=71, High=100, Low=0.  Spring 2014: 15 out of 20 (75%) met std. Average=73, High=100, Low=0.  Fall 2014, Spring 2015  53 of 63 met standard Average: 84 High: 100, Low: 0  --------------------------------  Fall 2015, Spring 2016  77 of 80 met standard Average: 100 High: 100, Low: 0 | 2012-2013 Academic Year: Students met standard.  2013-2014 Academic Year: Students met standard.  2014-2015 Academic Year: Students met standard.  2015-2016 Academic Year: Students met standard. |
| 3.) Demonstrate proficiency in installation and configuration of Linux operating systems. (ITSC 1316-Linux Installation and Configuration) |  |  | Fall 2012: 17 out of 22 (77%) met std. Average=77.3, High=100, Low=0.  Spring 2013: 20 out of 23 (87%) met std. Average=87, High=100, Low=0.  Fall 2013: 19 of 28 (68%) met std. Average= 67.9, High=100, Low=0  Spring 2014: 17 out of 21 (81%) met std. Average=81, High=100, Low=0.  -------------------------------------  Fall 2014, Spring 2015  30 of 45 met std. Average=74, High=100, Low=0.  ----------------------------------  Fall 2015, Spring 2016  50 of 61 met std. Average=83, High=100, Low=0 | 2013-2014 Academic Year: Students met standard. (73% of students over entire academic year met the std. Known problem for two students in Fall ’13 was addressed and did not recur in Spring ’14.)  2014-2015 Academic Year: Students met standard.  2015-2016 Academic Year: Students met standard. |
| 4.) Demonstrate proficiency in implementing a Microsoft Windows Server 2008 environment by implementing remote access policies. (ITMT 2351-Windos Server 2008 Server Administrator) |  |  | Fall 2012: 13 of 22 (59%) met std. Average=60.8, High=80, Low=0.  Fall 2013: 9 out of 17 (53%) met std. Average=67.1, High=80, Low=35.  ----------------------------------------  Fall 2014, Spring 2015  16 of 19 met std. Average=84, High=100, Low=0.  ----------------------------------  Fall 2015, Spring 2016  13 of 17 met std. Average=68, High=100, Low=0 | 2012-2013 Academic Year: Students did NOT meet standard. New lab #3 in ITMT 2451 was introduced in Fall 2012. Results from that section were reviewed in Spring 2013 and the decision was made to gather one more section of data.  2013-2014 Academic Year: Students did NOT meet standard. In Spring ‘14, the faculty decided to change how Lab #3 was configured and used, and they opted to present the material leading up to this lab differently when this course was taught in Fall ‘14.  2014-2015 Academic Year: Students met standard.  2015-2016 Academic Year: Students met standard. |
| 5.) Demonstrate proficiency in planning and implementing a Microsoft Windows Server 2008 environment by applying security to a Microsoft Active Directory Network, including modifying account policies. (ITMT 2301-Windows Server 2008 Network Infrastructure Configuration.) |  |  | Fall 2012: 69 out of 73 (95%) met std. Average=90.5, High=100, Low=0.  Fall 2013: 62 out of 64 (97%) met std. Average= 92.6, High=100, Low=60.  Spring 2014: 16 out of 22 (73%) met std. Average= 71.5, High=80, Low=45.  -------------------------------------  Fall 2014, Spring 2015  29 of 38 met std. Average= 95, High=80, Low=45.  ----------------------------------  Fall 2015, Spring 2016  17 of 20 met std. Average= 100, High=100, Low=100. | 2012-2013 Academic Year: Students met standard. New Lab #4 implemented for this academic year. Faculty felt that the initial use of the lab in Fall ’12 went well.  2013-2014 Academic Year: Students met standard.  2014-2015 Academic Year: Students met standard.  2015-2016 Academic Year: Students met standard. |
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