

Start of the Academic Year 2012-2013

New Cycle Program Learning Outcomes Plan Template

Please use this form as you begin your planning cycle for the up-coming Academic Year. You will want to connect this work to the plan from the prior year and the long-term plan for your program. Please only fill out the sections relevant to your program. You do not have to fill out all sections of this form.

Please return by **October 1st** to Jessica King: jkking84@valenciacollege.edu

Please send questions to Laura Blasi, Director, Institutional Assessment lblasi@valenciacollege.edu

How this relates to your Program Improvement Plan: This “new cycle template” is where you and your colleagues describe the next phase of your plan to be accomplished in the 2012-2013 Academic Year. Use this template to describe what you plan to do to implement the plan for improvements (identified in spring of 2012) over this upcoming year and write out the next program outcome you and your colleagues will assess and your plan for accomplishing this over the next year.

Academic Program / Discipline Area (for General Education) or Co-Curricular Program Area:

1. What is your program name? **Computer Engineering Technology (Networking), Cybersecurity and Digital Forensics Specialization**
2. Does this academic year’s improvement plan (2012-2013) build on your work from last year (2011-2012)? If so, how... (1-2 sentences)

Our program learning outcomes will be assessed in comparison to those identified by the National Initiative on Cybersecurity Education (NICE) through participation in national cyber defense competitions such as the National Cyber League (NCL)

Planning Team Leader(s) ¹	Campus	E-mail Address	Phone Extension	Mail Code
Wael Yousif	West	wyouisif@valenciacollege.edu	1064	4-41
Planning Team Members ²	Campus	E-mail Address	Phone Extension	Mail Code
Courtney Violette	West	cviolette@valenciacollege.edu	1614	4-41
Soheyla Nakhai	West	snakhai@valenciacollege.edu	1476	4-41

¹ Planning Team Leaders assume the responsibility for coordinating activities associated with the expectations for the design, approval and implementation of Assessment Plans.

² Planning Team membership, whenever possible, should reflect the ***Principles for selection of members for assessment plan work teams***. For faculty teams the principles include: College-wide representation where possible; Full-time faculty from the respective program / discipline (tenured, tenure track, and non-tenure earning 4 / 8 / 10 month faculty); Adjunct faculty when an adequate number of full-time faculty do not teach in the program / discipline; Faculty from both disciplines or programs when an outcome is assessed in two programs or a program other than the primary discipline. For plans developed in Student Affairs planning teams should include the following: College-wide representation where possible; Staff from the targeted program area; Part-time Student Affairs professionals when an adequate number of full-time staff do not work in the targeted program area; Faculty / staff from other program / discipline areas working on the same or similar outcomes; Student representation when possible.

Learning Outcomes and Performance Indicators

Academic Program / Discipline Area (for General Education) or Co-Curricular Program Area:	
Major finding from last year and related change, if any:	
Services needed as a result of the finding (Student Learning Support, Faculty Development, etc.):	
Targeted Program Learning Outcome(s) (PLOs) for this year: Critical Thinking	Targeted Course(s), Co-Curricular Program or Student Activity associated with the Academic Program: CET 2894C Projects in Cybersecurity
Is this a different outcome from the one reported last year? (yes /no) Yes	
Does this assessment for this year apply to more than one PLO? (yes /no) Yes	
National Standard(s): National Initiative on Cybersecurity Education (NICE) <small>(This could be specific to your field or focused on overall undergraduate competencies from a national organization. Contact Laura Blasi for examples / ideas. lblasi@valenciacollege.edu)</small>	Targeted Outcome(s) within the Course(s), Co-Curricular Program or Student Activity identified above: Harden computer systems against cyber attacks
Performance Indicators for the Program Learning Outcome(s) selected: Effectively analyze and evaluate data from different sources including reports and log files to troubleshoot network problems, identify gaps in systems security and to mitigate Cybersecurity risks	Performance Indicators for Outcome(s) within the Course(s), Co-Curricular Program or Student Activity selected: Pertaining to computer and network systems: <ol style="list-style-type: none"> 1. Test the security posture 2. Identify vulnerabilities 3. Assess risk 4. Implement security measures 5. Reevaluate and respond with effective countermeasures
Prediction (Given what you know about your students, how you expect them to perform? What do you expect to see? You will be able to compare your beliefs to the results that you receive at the end of this assessment cycle)	

I expected a sharp learning curve at first as students get used to the dynamics of cyber defense competitions.

I expect varied degrees of imperfections in all aspects (testing, identifying, assessing, etc...) for the first few exercises. However, I am hoping that as we get closer to the championship that most of the students, if not all, would be at or near the competency level.

Common Assessment – What assessment method (written assignment, speech, test, etc.) will you use to assess student ability related to the program / course outcome(s) selected:

Cyber Defense Exercises

Description of the Proposed Common Assessment – Common assessments should be designed to ensure a balance between (1) the need for a consistency within the program in order to ensure comparable student artifacts and (2) the need for reasonable flexibility in order to encourage faculty judgment in the design and delivery of learning activities:

A scoring system measuring the degree to which students were able to achieve each of the objectives individually and collectively

What is the approximate number of students that you expect to assess? (Please indicate “Do not know at this time” if that is the case)

15 to 20 Students

Implementation Process

Planning for Communication and the Collection of Student Artifacts / Data

1. **When will faculty seek or receive feedback on the design of the assessment, the rubrics, etc.?**

November 15

2. **How will student artifacts or data associated with student performance be collected?**

The capstone class instructor(s) will collect the final Cyber defense project/exercise in forms of scoring report, configuration files and screen snapshots

3. **If student artifacts are to be collected based on a sample of students, what characteristics should the sample include?**

N/A

<p>4. What information needs to be communicated to students concerning the assessment process? The nature of the competition, login credentials, details of the network topology, and the scoring system</p>
<p>5. How will information about faculty / staff participation in the assessment project be communicated? The capstone class instructor(s)</p>
<p>6. Who will be responsible for coordinating the collection of student artifacts / data? The capstone class instructor(s)</p>
<p>7. At what point in the academic year / semester will the student artifacts/ data be collected? One week before the final exam week, Fall and Spring terms</p>

Evaluation of Student Artifacts and Analysis of Results: Understanding and Acting on the Impact of the Program (Program Level Assessment)

<p>8. When will student artifacts be assessed / evaluated? Final Exam Week</p>
<p>9. What is the expectation (if any) for student reflection / self-assessment (etc.) as part of this assessment?</p>
<p>10. Which faculty or staff from the program/discipline will evaluate student artifacts? The capstone class instructor(s)</p>
<p>11. What training / preparation / information will faculty or staff need in order adequately assess / evaluate the student artifacts collected? Understanding of the scoring system and how to apply it uniformly and consistently</p>
<p>12. When will the results / data associated with the assessment plan be analyzed? December 2012 and April 2013</p>
<p>13. What training / preparation / information will faculty or staff need in order to analyze the results data associated with this assessment plan? *</p>
<p>14. Does this assessment relate to your assessment from last year (if so how...)? How is this assessment connected to your improvement plan? No, first time to assess this specialization program</p>
<p>15. What additional sources of data might allow faculty / staff to better understand and act on the results of this assessment plan? Comparing our students' performance to that of other contestants across the nation</p>

Approval / Implementation Process

Activities Associated with the Approval / Implementation of Assessment Plans	Person Responsible	Target Completion Date	Actual Completion Date
Enroll students in the National Cyber League Competition	Wael Yousif/ Courtney Violette	10/04/2012	
Identify and share with the students the details of the practice exercises	Wael Yousif/ Courtney Violette	10/20/2012	
Cybersecurity and Digital Forensics Faculty analyze and approve the final project/final cyber defense exercise	Wael Yousif/ Soheyla Nakhai	11/02/2012	
Scoring system is explained and shared with the students	Wael Yousif/ Soheyla Nakhai	11/18/2012	
Students participate in the championship final cyber defense competition	Wael Yousif/ Courtney Violette	12/02/2012	
Collection of artifacts and scoring reports	Wael Yousif/ Courtney Violette	10/12/2012	
<p>For thought (you do not need to answer...)</p> <ul style="list-style-type: none"> • <i>Will current voter eligibility lists for the curriculum be used for any voting?</i> • <i>Will you have a group enroll in a related assessment methods workshop for credit or schedule your own sometime during the term? (See: http://valenciacollege.edu/faculty/development/coursesearch.cfm)</i> • <i>For A.S. programs – how does the 10/30/12 Viability meeting fit with your work?</i> 			

Dean / Director Support

The Dean(s) / Directors (for Librarians, Counselors) responsible for supporting and promoting the work necessary for the implementation of the Assessment Plan need to indicate their support for the plan.

Dean / Director East / Winter Park Campus	Signature
Dean / Director Osceola / Lake Nona Campus	Signature
Dean / Director West Campus: Dr. Lisa Macon	Signature

