Year- End Report
2013-2014

Computer Information Systems

Information Security

AA 150

Document Prepared By:

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May 1, 2014
Department Information

Annual Updates

Review & Documentation:

Current year goals & outcomes
The end of the second year of this program has indicated the need for revisions over and above what were recommended in the report last year. The curriculum, based on conversations with Davenport and Ferris, was not strong enough to transfer to BS degrees with two full years of credit. The decision has been made to follow a standards based curriculum that will insure students can transfer and are working toward certification as well.

Goals for next year
1. Eliminate two credit courses to increase transferability of courses.
2. Realign security specific courses to ISSA (Information Systems Security Association) standards and certifications.
3. Develop communications plan to market degree.

Internal collaborations and partnerships
Communications Department – Implement plan to market degree via social media.
IT Department – Continue to develop infrastructure to insure students have adequate resources for online learning.

External collaborations and partnerships
GRCC CIS faculty will work to develop formal recruiting, transfer and articulation agreements with Davenport, Ferris and Valencia college. Formal, written agreements will be in place by 5/15.

Luann Keizer has joined the local chapter of ISSA and will attend monthly meetings.
Departmental needs for support from other departments within the college
Reviewed under internal collaborations.

In addition, Katie Daniels and Erin Busscher will assist in the creation of curricular alignment and transferability of courses and degree.

Program accreditation Updates
N/A

Description of departmental advising plan and outcomes
Students enrolled in the Information Security degree program will be advised via email and online chat once each semester. As we will be modifying courses, we will make students aware of all changes impacting the degree.

The major outcome this year is to have graduates of the program successfully transfer with the AA from GRCC to a four year degree program. The goal is to have three students graduate in 2015.

Departmental professional development activities
Teaching faculty will need to become familiar with ISSA standards and certifications. To teach the courses, at least one faculty member will be required to obtain ISSA certification.

Student Awards
N/A

Other department updates
As is the case with all CIS degrees, there is substantial curriculum revision taking place to insure the courses and degree as a whole are well aligned to transfer.
Faculty & Staff

Faculty & Staff Annual Updates

Professional Development Activities
2013-2014 has been a huge year of learning for CIS faculty in terms of curriculum revisions and degree alignment. We have met a total of 20 hours in 2013-2014 as a staff with Katie Daniels and Erin Brusscher to learn the intricacies of what is needed to improve our degree offerings for students and realign both AA transfer degrees and AAAS workforce development degrees. These efforts have not been without frustration as we try to develop processes and take one step forward, then two steps back. We are making progress, however, and have realigned degrees making choices clearer for students, faculty and transfer partners. Individual courses have been more closely aligned with transfer partners of GVSU, FSU and Davenport for AA degrees including information security. Courses should be formally rewritten and submitted for inclusion in the 2015-2016 catalog.

EOL/Release Time Work
N/A

Faculty & Staff Accomplishments/Awards
N/A

Faculty Development for Upcoming Year
We need additional training and development in curricular alignment and an overall understanding of the APR process.
Computer Applications – Information Security Degree – 150

Program Outcomes:

1. Provide students who complete an AA degree the ability to transfer to a university to seek a Bachelor’s or higher degree in Information Security.
2. Increase the career potential of those already in the computer industry with skills and knowledge of the information security.
<table>
<thead>
<tr>
<th>Program Learning Outcomes</th>
<th>ILO</th>
<th>Measure</th>
<th>Findings/Improvements/Impact</th>
<th>Status, Fall 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communicate effectively with co-workers in person and in writing</td>
<td>Communication</td>
<td>Assessment CO 212, 273</td>
<td>Effective</td>
<td>Complete</td>
</tr>
<tr>
<td>Assess the security needs of computer and network systems.</td>
<td>Critical Thinking</td>
<td>Labs- hands on projects</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
</tr>
<tr>
<td>Recommend safeguard solutions and manage the implementation and maintenance of security systems and devices.</td>
<td>Critical Thinking</td>
<td>Labs- hands on projects</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
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<tr>
<td>Explain and evaluate security threats.</td>
<td>Critical Thinking</td>
<td>Labs- hands on projects</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
</tr>
<tr>
<td>Define, compare and evaluate security technologies including firewalls, intrusion detection systems, security protocols, virtual private networks (VPN’s) and cryptography.</td>
<td>Critical Thinking</td>
<td>Labs- hands on projects</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
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<tr>
<td>Create and defend a self-defined security implementation methodology.</td>
<td>Critical Thinking</td>
<td>Project: CO 212, write security plan for corporation</td>
<td>Effective</td>
<td>Complete</td>
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<td>Identify primary methods of ongoing security maintenance</td>
<td>Critical Thinking</td>
<td>Labs- hands on projects</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
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<tr>
<td>Identify key components of Internet governance, regulation and compliance.</td>
<td>Critical Thinking</td>
<td>Assessment, research project</td>
<td>Needs to meet ISSA standards</td>
<td>Review</td>
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<td>Explain key issues in regulating internet privacy</td>
<td>Critical Thinking</td>
<td>Labs, hands on project</td>
<td>Requires new course on mobile/internet security</td>
<td>New course to be written 2014</td>
</tr>
<tr>
<td>Effectively interact with individuals of diverse social, cultural and ethnic backgrounds.</td>
<td>Social Responsibility</td>
<td>Online discussion boards</td>
<td>Effective</td>
<td>Complete</td>
</tr>
<tr>
<td>Develop timeliness, reliability and organizational skills demonstrated by regular attendance and participation in class.</td>
<td>Personal Responsibility</td>
<td>Course completion rates are high for IS courses</td>
<td>Effective</td>
<td>Needs additional advising and online community building</td>
</tr>
</tbody>
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