Comprehensive Program Review Report (Narrative)
College of the Sequoias
Program Review - Information Technology

Prepared by: John Winterton

What are the strengths of your area?:
1. The current program has close alignment with industry standards and certification requirements.
2. The current program has close alignment with the needs of local industry based on advisory committee, employer, and hired student feedback.
3. Matriculating students report close alignment between content and practical learning at COS, and the expectations of upper-division course requirements at CSU and UC Bachelor programs.
4. Current Instructors in the program have extensive industrial experience that matches with the content areas each instruct.
5. The CISCO Academy program this year was honored as being in the top 25 percent of student success rates in the world, from among over 9,000 academies in 165 countries, and over 900,000 active students.

What improvements are needed?:
1. The COMPTIA A+ program needs to be compressed to fewer classes, and a simpler certificate created to reflect changes in the local, regional, national, and international market.
2. The COMPTIA Network + program needs to convert to a more server and security-based curriculum to reflect changes in the local, regional, national, and international market.
3. Modern Equipment and Software should be purchased to support existing and new classes.
4. The electronics program should be expanded to include micro-robotics, and micro physics to reflect changes in the local, regional, national, and international market.
5. Micro-controller and mobile device programming and interfacing courses should be created that reflect changes in the local, regional, national, and international market.
6. New certificates should be created, and existing certificates should be modified to reflect changes in the curriculum.
7. An associate degree should be created to improve employ-ability of our graduated. The name of the new program should be: Information and Communication Technologies (ICT)

Describe any external opportunities or challenges:
1. STEM funding and new K-12 partnerships are now possible.
2. UC and CSU partnerships may possibly be created, as well as BA programs or partnerships might be possible at COS.
3. Short courses and seminars for local middle and high-school students in STEM courses should be sponsored at COS.
4. Coordinated funding, purchases, and sharing of facilities should reduce duplication of resources.
5. Current instructor retirement will challenge the development and offering of the existing and new courses and programs.

Overall Outcome Achievement:
1. The program enjoys a high-level of employment and certificate achievement.
2. Students are successful in gaining employment, and the reputation of the program is highly regarded in the community.
3. The content and practical learning of the program (as measured by program and student learning outcomes), are in line with the expectations of the employers of the community, and with transfer requirements.
4. An active advisory committee is recommending improvements and additions to the program based on changes in the local, regional, national, and international market.

Changes based on outcome achievement:
1. Immediate modification of existing courses and certificates should be completed.
2. Additional courses and certificates should be planned, and supplies, material fees, and equipment should be acquired.
3. An associate ICT degree should be developed, and implemented.

Outcome cycle evaluation:
1. Update and modify existing courses and certificates.
2. Create additional courses and certificates.
3. Create an associate ICT degree.

Action: Existing course and certificate modification
Update and modify existing courses and certificates.
COMPTIA A+, IT 210, IT 211, IT 212
COMPTIA Network +, IT 220, IT 221, IT 222, IT 223

Start Date: 01/14/2014
Completion Date: 01/14/2015
Status: New Action
Person(s) Responsible (Name and Position): John WINTERTON
Rationale (With supporting data):
Priority: High
Safety Issue: No
External Mandate: Yes
Mandate Explanation: Advisory committee recommendations

Add Resource Request for Action

<table>
<thead>
<tr>
<th>Resource Description</th>
<th>Why is this resource required for this action?</th>
<th>Notes (optional)</th>
<th>Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty time for updating courses and certificates.</td>
<td>The advisory committee has requested significant updating and modifying of the existing program</td>
<td></td>
<td>Yes</td>
</tr>
</tbody>
</table>

Resource Type: Faculty- New/Replacement

Action: Creation of new courses and certificates
Create additional courses and certificates.

Implementation Timeline: 2015 - 2016
Start Date: 01/14/2015
Completion Date: 01/14/2016
Status: New Action

Person(s) Responsible (Name and Position): John Winterton
Rationale (With supporting data):
Priority: High
Safety Issue: No
External Mandate: Yes
Mandate Explanation: Advisory committee recommendations

Action: Creation of an ICT associate degree program
Create an associate ICT degree.

Implementation Timeline: 2015 - 2016
Start Date: 01/14/2015
Completion Date: 01/14/2016
Status: New Action

Person(s) Responsible (Name and Position): John Winterton
Rationale (With supporting data):
Priority: High
Safety Issue: No
External Mandate: Yes
Mandate Explanation: Advisory committee recommendation
Action: Faculty Replacement

The current faculty member is retiring May 2015. Our FTEF is 4.5 for this department. To make the required changes to the program a full-time faculty is required.

**Implementation Timeline:** 2015 - 2016
- **Start Date:** 11/13/2014
- **Completion Date:** 08/13/2015
- **Status:** New Action

**Person(s) Responsible (Name and Position):**
- John Winterton

**Rationale (With supporting data):**
- Priority: High
- Safety Issue: No
- External Mandate: No

**Mandate Explanation:** Replacement Position

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<td>Instructor for the Electronics and Information Technology Program.</td>
<td>Faculty replacement for retiring instructor</td>
<td></td>
<td>Yes</td>
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</tbody>
</table>

**Resource Type:**
- Faculty- New/Replacement