

Comprehensive Program Review Report



Program Review - Information Technology

Program Summary

2020-2021

Prepared by: Ramyar Alavi-Moghaddam

What are the strengths of your area?: Students can now complete an A.S. Degree in Information Communication Management (approved Fall of 2019 now in the COS Catalog). Direct connection with industry where students have an opportunity to gain valuable industry experience while completing their education.

What improvements are needed?: The ICT program need to continuously adapt to industry demand. This will be achieved through direct interaction with the Industry Advisory committee. Their feedback and recommendations are crucial to this end.

Describe any external opportunities or challenges.: 1. Working with K-12 institutions to have students take ICT courses at COS.
2. Provide courses online so working adults and student out of the area have access to classes offered on campus.
3. Have students tour IT facilities around the south valley to experience first hand what it's like to be an IT professional.

Outcome cycle evaluation: Currently the program outcomes are inline with COS ILOs. Students in the ICT program are working in industry through internship, project based opportunities, and full time positions (refer to the ICT website for a list of students currently employed in industry).

Overall SLO Achievement: SLOs have been entered into TracDat and will be completed in 2020-2021.

Changes Based on SLO Achievement: None

Overall PLO Achievement: PLOs have been entered into TracDat and will be completed in 2020-2021.

Changes Based on PLO Achievement: None

Action: ICT Course Offerings Online and/or Hybrid format

Complete and upload Distance Learning Addendum for all ICT courses.

Leave Blank:

Implementation Timeline: 2020 - 2021

Leave Blank: 10/01/2019

Leave Blank: 08/31/2020

Identify related course/program outcomes: This action will provide the opportunity to a wider population of students that are working adults. Most students can't attend classes in person on campus since they have to work a full time job.

Person(s) Responsible (Name and Position): Ramyar Alavi-moghaddam

Rationale (With supporting data): Most students have to work to support themselves and their families. That prevents them from being able to complete their education by attending classes on campus face to face. Providing the online and/or hybrid option gives students the opportunity to complete their education remotely with more flexibility.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2020 - 2021

Status: Action Completed

09/09/2020

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All ICT courses can be taught online starting Fall 2020. The Distance Learning Addendum was included with each course within Course Leaf and approved.

Impact on District Objectives/Unit Outcomes (Not Required):

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years

District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

Action: Marketing the ICT Program

Grow the ICT program through partnering with high schools. This will include coordination with I & T high school liaison to share what is available in terms of programs, and industry job opportunities.

Leave Blank:

Implementation Timeline: 2020 - 2021

Leave Blank: 01/01/2021

Leave Blank: 12/31/2021

Identify related course/program outcomes:

Person(s) Responsible (Name and Position): Ramyar Alavi-moghaddam Faculty

Rationale (With supporting data): This action will improve enrollment in the ICT program. It will also provide valuable information regarding local internship and job opportunities.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years

District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

Action: 2018-2019, 2017-2018; 2016-2017 ICT marketing

Provide informational tours twice a year (Fall and Spring semesters) for students. Have a system of referring students to industry partners for internship, job shadowing, and volunteer opportunities.

Leave Blank: Continued Action

Implementation Timeline: 2019 - 2020

Leave Blank: 09/01/2016

Leave Blank:

Identify related course/program outcomes: Provide industry experience through internships, job shadowing, and volunteer work with industry partners.

Person(s) Responsible (Name and Position): Ramyar Alavi-Moghaddam

Rationale (With supporting data): Two year technology degrees will be the main component in economic growth in the south valley for the coming years.

Priority: High

Safety Issue: No

External Mandate: No

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Safety/Mandate Explanation:

| Update on Action |
|---|
| <p><i>Updates</i></p> <p>Update Year: 2020 - 2021 05/23/2017</p> <p>Status: Action Discontinued</p> <p>This will be an ongoing process. Students continue to get internship opportunities via industry partners (Kaweah Delta Medical Center, Torian Group...)</p> <p>Impact on District Objectives/Unit Outcomes (Not Required): This impacts our 2nd district objective (increasing student success). By gaining experience in the technology field while taking courses at COS, students will have a better chance at becoming full time professionals once their education is complete.</p> |

Link Actions to District Objectives

| |
|---|
| District Objectives: 2018-2021 |
| District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years |
| District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points |
| District Objectives: 2015-2018 |
| District Objectives - 1.1 - Increase overall enrollment by 1.75% annually |
| District Objectives - 2.1 - Increase the number of students who are transfer-prepared annually. |
| District Objectives - 2.4 - Increase Career Technical Education course success rates and program completion annually. |

Action: 2020-2021 Pursue training in Cyber Security to provide up to date curriculum and course work in the ICT program.

Seek out training opportunity, and building curriculum toward offering relevant course work that meets Industry demands. In this case Cyber Security which is an important part of every IT departments responsibility in an organization.

Leave Blank: Continued Action

Implementation Timeline: 2020 - 2021

Leave Blank: 09/03/2020

Leave Blank: 12/31/2021

Identify related course/program outcomes: This course will show teach students the most effective steps to prevent attacks and detect adversaries with actionable techniques on network systems. They will learn tips and tricks designed to help you win the battle against the wide range of cyber adversaries that want to harm a given IT environment.

Person(s) Responsible (Name and Position): Ramyar Alavi-Moghaddam ICT full time faculty

Rationale (With supporting data): Courses work is currently offered (ICT-230 Network Security Fundamentals). However this will provide any updates needed and access if additional course offerings are warranted.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

| Update on Action |
|--|
| <p><i>Updates</i></p> <p>Update Year: 2020 - 2021 09/09/2020</p> <p>Status: Continue Action Next Year</p> |

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ICT-235 Introduction to Virtual Computing has been approved, and is being offered for the first time during fall 2020 semester.
Impact on District Objectives/Unit Outcomes (Not Required): District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years
District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

Resources Description

Equipment - Non-Instructional - Training to keep abreast of latest developments and demands for Cyber Security professionals. (Active)

Why is this resource required for this action?: Cyber Security is an important part of an IT departments overall responsibility. In order to protect an organizations technology assets it's crucial for students to have relevant training and experience in this area.

Notes (optional): It is important to keep our current course offering up to date. Additionally we need to evaluate if providing additional course work is warranted while trying to remain relevant to industry demands.

Cost of Request (Nothing will be funded over the amount listed.): 10000

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 2.1 - Increase the percentage of students who earn an associate degree or certificate (CTE and Non-CTE) by 5 percentage points over three years

District Objective 2.4 - By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

District Objectives: 2015-2018

District Objectives - 2.4 - Increase Career Technical Education course success rates and program completion annually.

District Objectives - 3.2 - Increase training for academic and student services staff and faculty to respond to the unique needs of our student population.