

# Comprehensive Program Review Report



## Program Review - Information Technology

### Program Summary

#### 2021-2022

**Prepared by:** Ramyar Alavi-Moghaddam

**What are the strengths of your area?:** My program continues to show steady increase in enrollments even though we have been dealing with COVID-19 this past year. Students are able to complete course work online, and in hybrid modalities. This provides greater opportunities for working students to complete the programs offered while they support themselves and their families.

**What improvements are needed?:** Need to get our internship program back on track since the pandemic all but eliminated such opportunities. 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 internship opportunities so students can get hands on experience in industry

**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 2021-2022.

**Changes Based on SLO Achievement:** None

**Overall PLO Achievement:** PLOs have been entered into TracDat and will be completed in 2021-2022.

**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

09/09/2020

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**Status:** Action Completed

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: 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, 2021 - 2022

**Leave Blank:** 09/03/2021

**Leave Blank:** 12/31/2022

**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

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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

### Updates

**Update Year:** 2020 - 2021

09/09/2020

**Status:** Continue Action Next Year

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.