

Comprehensive Program Review Report



Program Review - Computer

Program Summary

2020-2021

Prepared by: Craig Arnold, Brian Bettencourt, Tara Bosma, Susan Mazzola

What are the strengths of your area?: Quality of Instructors: Within the Business Department, we currently have eight full-time instructors teaching computer courses. Seven instructors are certified to teach courses online. All instructors have a master's degree, many with years of teaching experience and/or real-world experience. Currently our instructors are serving 140.97 FTES with a success rate of 66%, a 3% increase from the previous year.

A detailed look at the success rate with information coming from the PR dashboard (Tableau); Gender: female-66%, male-66%, and unknown-*%; Instructional Mode: Face-to-face-73%, Hybrid-63%, and Online-61%; Campus: Visalia-74%, Hanford-62%, Tulare-64%, and Online-61%; and race/ethnicity; African American-46%, American Native-*%, Asian-74%, Filipino-*%, Hispanic-65%, Multi Ethnicity-66%, Pacific Islander-*%, White-70%, Unknown-51%.

Internship Program: The Business Department currently places approximately 42 students per year in computer related internships with approximately 22 participating local businesses. This is a steady increase from the program's inception approximately 11 years ago.

Technology Use: The current software being taught includes: Microsoft Office 2019, Microsoft Visual Studio 2019, javac.

Full-time Professors: The full-time faculty of the Business Department currently teach 81.4% of the computer courses. The remaining 18.6% are taught by adjunct faculty with many years of teaching and real-world experience.

Internship Assistant: A part-time classified employee assists with the Internship program. The assistant, working with the Internship Coordinator, communicates with local businesses setting up internship opportunities, meets with students, manages student applications, pairs student with appropriate internships, monitors student progress, and facilitates student evaluations.

What improvements are needed?: Student Success: During the pandemic, student access to adequate computers and the Internet is a major concern. Many students have been unaware of the resources available through the college.

Computers: Through the library, some students have been able to check out computers and hot spots. Some students have been issued computer vouchers.

Communication: Provide students a departmental-level document with information on available computer-related resources.

Describe any external opportunities or challenges.: The challenge is to prepare students for computer-related positions. The program is unique in that many courses are geared for multiple types of career opportunities. Other courses are specific to train students in the work areas of computer programming and information systems.

Overall SLO Achievement: The Student Learning Outcomes are currently being tracked and assessed in TracDat and are meeting or exceeding expectations. The overall reported student success rates meet the target goals.

Changes Based on SLO Achievement: As a result of students meeting or exceeding success goals, instructors have continued to adapt to new pedagogies to meet current student needs. For example, many instructors created home offices to facilitate teaching of their classes, held office hours via Zoom, and completed online teaching certifications. These adaptations provide students with quality online instruction and support to promote success.

Overall PLO Achievement: Assessment of PLOs evaluated for Computer Programming and Information Degree and Certificate with data from the spring 2020 semester. All three PLOs increased in success: two achieving 100% success and one achieving 93% success.

Changes Based on PLO Achievement: The PLO with 93% success was up significantly due to a change in evaluation method.
Outcome cycle evaluation: Each year several courses are slated for review of outcome assessment via a rotation schedule. The Business Division faculty meet to discuss the TracDat assessments and recommend changes according to student needs and changing environment.

Action: Student Success Rates

Maintain student success at or above 63%

Leave Blank: Continued Action

Implementation Timeline: 2019 - 2020, 2020 - 2021

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Identify related course/program outcomes: At the end of their program, students will be able to demonstrate competency in word processing, spreadsheets, databases, and/or web development.

Person(s) Responsible (Name and Position): Susan Mazzola, Instructor

Rationale (With supporting data): Overall student success during 2019-20 was 66%. Work will continue to maintain a desired success rate at or above 63%.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2020 - 2021

09/22/2020

Status: Continue Action Next Year

Student success for 2019-20 is at 66%, which exceeds our ongoing goal of at least 63%.

Impact on District Objectives/Unit Outcomes (Not Required): Impact on District Objectives/Unit Outcomes: District Objective #2.4: By 2021, Increase the percentage of CTE students who achieve their employment objectives by 5 percentage points

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: 2013-2015

2013-2015: District Objective #1 - District Objective #1 for 2013-2015: Provide effective academic support services as measured by an increase in the rate at which students successfully complete courses.

District Objectives: 2015-2018

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

Action: Update software and hardware

Provide students with updated software and hardware comparable to industry standards.

Leave Blank: Continued Action

Implementation Timeline: 2019 - 2020, 2020 - 2021

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Program Review - Computer

Identify related course/program outcomes: At the end of this program, students will be able to manage various computer applications and programming techniques.

Person(s) Responsible (Name and Position): Craig Arnold, Instructor

Rationale (With supporting data): During this past year, Microsoft Office was updated to the 2019 version. The need to remain current with industry technology is important for student employment opportunities.

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Link Actions to District Objectives

District Objectives: 2018-2021

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

District Objectives: 2013-2015

2013-2015: District Objective #1 - District Objective #1 for 2013-2015: Provide effective academic support services as measured by an increase in the rate at which students successfully complete courses.

District Objectives: 2015-2018

District Objectives - 4.2 -Improve the efficiency, effectiveness and communication of human, physical, technological, and financial resources to advance the District Mission.

Action: Business Department Student Guide to Computer Resources

Provide departmental-level document to share information on the computer resources available to the students during the pandemic.

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Implementation Timeline: 2020 - 2021

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Identify related course/program outcomes: 2.4 Increase career technical education course success rates and program completion annually.

Person(s) Responsible (Name and Position): Brian Bettencourt, Tara Bosma

Rationale (With supporting data): Providing students access to information on the available technologies would improve the success for many of our students who have traditionally had limited technology at home and difficulty finding support information.

Priority: Medium

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