

Comprehensive Program Review Report



Program Review - Construction Technology

Program Summary

2022-2023

Prepared by: Brian Unruh

What are the strengths of your area?: Enrollment for the Fall 2022 semester has increased since the Fall 2021 semester, perhaps due to outreach efforts over the past year.

For the first time, OSHA 10 safety training is being offered for students within the program. This will prove to be a benefit for students upon entering the work force.

A new business partner has been made with Franey's Carpet one which will offer job shadowing and employment opportunities for students upon completion of their time at COS.

Success Rates for CT 250 is 81.8% among Hispanic males under age 20, and 76.9% among Hispanic males ages 20-24. Most courses show even higher success rates, but CT 250 is chosen due to its popularity among students and has been a very high enrolled course.

What improvements are needed?: More work is needed to improve student completion rates within the Construction Technology program.

Data shows a decline in student success rates from the past school year, but growth from the 2019/20 school year. Additionally the FTES/FTEF ratio is below the target rate for the program which is 17.5%.

Additional adjunct instructors are needed which will fill the vacancy in the adjunct pool.

There is need for upgraded equipment, tools, and technology that students will use when they enter the work force. Funding for these items has been provided through VTEA .

Greater outreach to disproportionate groups is needed to improve success rates among these groups.

Describe any external opportunities or challenges.: Opportunity: With the development of a new business partner (Franey's Carpet One) students may benefit by having opportunities for job shadowing and future employment.

Challenges: The COS project house has been a long standing project and I would like to complete the project this school year and get this house moved out.

It is a challenge to develop student learning to a level that is acceptable within the industry. I want to seek greater employer engagement and the development of more business partners who are committed to the success of students in the Construction Tech program.

Overall SLO Achievement: Student learning achievement is satisfactory, and the project house has been a benefit to many students over the past few years.

Changes Based on SLO Achievement: The COS project house has been a benefit to many students over the past few years, but future development of the program may lead to smaller, less complex projects that will allow a student to observe the beginning and end of a project within their term at COS

Overall PLO Achievement: This is the first year under the new revision of program offerings of degree/certificate programs and the outlook is good for continued success for the program. The Construction Tech Program offerings have been reduced from 8 degree/certificates to 4. I anticipate greater student success rates and completion rates due to a streamlined pathway, but improved course objectives are needed to reduce redundancy among courses.

Changes Based on PLO Achievement: Revised degree/certificates have revealed a need to create more specific outcomes for each course and eliminate repetition in course topics for the Construction Practice courses.

Outcome cycle evaluation: The Construction Tech program has experienced slow but steady growth over the past three years. More work should be done to increase student enrollment in the program by continued outreach activities in the upcoming year. The program has benefited from having an active and engaged advisory board that is committed to the success of COS

Action: 2022-2023 Increase completion rates in all CT courses, certificates and degree

implement an automatic award for CT certificates and degrees; prepare a banner with CT pathway outlined to be hung in the CT Lab; develop informatic to post on your CANVAS shells or add it to your syllabus

Leave Blank:

Implementation Timeline: 2022 - 2023

Leave Blank:

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Identify related course/program outcomes: Program outcomes to increase completion rate in Strategic plan and Master Plan

Person(s) Responsible (Name and Position): Brian Unruh, Lisette Conway

Rationale (With supporting data): CTE Dean has determined that automatic CTE awards would increase CT completion rates; also want to talk with students about the pathway and what classes to take; optimize the CT schedule so students can complete in a timely.

Priority: High

Safety Issue: No

External Mandate: Yes

Safety/Mandate Explanation: Master Plan and Strategic plan

Link Actions to District Objectives

District Objectives: 2018-2021

District Objective 1.1 - The District will increase FTES by 1.75% over the three years

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 Objectives: 2021-2025

District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

Action: 2022-2023 Increase enrollment In CT courses

Increase enrollment in CT programs through outreach to non-traditional students such as women in CT; Foster youth and older adults.

Work with CTE Dean/HS Liaison/Marketing to recruit and provide open house type events.

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Implementation Timeline: 2022 - 2023

Leave Blank:

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Identify related course/program outcomes: N/A

Person(s) Responsible (Name and Position): Brian Unruh, Jonna Schengel, Chelsea Cushing, Lauren Fishback

Rationale (With supporting data): Enrollment and completion rate is over 80% for Hispanic males below 20. Therefore, there is capacity to reach different demographics regarding the CT courses/programs.

Priority: Medium

Safety Issue: No

External Mandate: Yes

Safety/Mandate Explanation: VTEA requires we outreach; Master Plan to reach local students

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Equipment - Non-Instructional - Open house events; recruitment events/foster youth caravan (Active)

Why is this resource required for this action?: To provide bus ride; open house materials/food for each event

Notes (optional): Lisette is doing the Women in Trades; Ashley is hosting the CTE Foster Youth caravan ; VTEA to fund

Cost of Request (Nothing will be funded over the amount listed.): 3000

Link Actions to District Objectives

District Objectives: 2021-2025

District Objective 1.1 - The District will increase FTES 2% from 2021 to 2025.

Action: 2022-2023 Student workers for shop activities

In an effort to maximize lab times, I would like to hire two student workers to help with lab setup, tool inventory, and shop cleanup. Both student workers will be hired for 3 hours per week.

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Implementation Timeline: 2021 - 2022, 2022 - 2023

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Identify related course/program outcomes:

Person(s) Responsible (Name and Position): Brian Unruh, Instructor of Construction Technology

Rationale (With supporting data):

Priority: High

Safety Issue: Yes

External Mandate: No

Safety/Mandate Explanation: By having a student worker in the shop to help keep floors swept and shop organized, they would help lessen trip and slip hazards.

Update on Action

Updates

Update Year: 2022 - 2023

08/26/2022

Status: Continue Action Next Year

Last year I had one student worker, and it proved to be a success for the program and the development of the student worker. This year I have three student workers and I hope that it will prove to be as beneficial for them. Student workers help with lab setup and clean up, tool organization, and also benefit by more one on one time with the instructor and hands on learning in the wood shop.

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

Resources Description

Personnel - Classified/Confidential - Hire two student workers to work in the wood shop for 3 hour per week for shop cleanup, tool inventory, and lab setup. (Active)

Why is this resource required for this action?: This will benefit those working in the shop by helping with cleanup, organization and tool checkout. Additionally the students worker will help with cleanup and lab setups which will maximize lab times.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 2400

Link Actions to District Objectives

District Objectives: 2021-2025

District Objective 4.1 - Increase the effective use of data and transparency in decision making at all institutional levels from 2021-2025.

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District Objective 4.3 - Improve professional development practices District-wide for all District employees to support equity and operational effectiveness from 2021-2025.

Action: 2022-2023 Syllabus equity

Alter each of the course syllabi to promote equity and increase student success.

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Implementation Timeline: 2021 - 2022, 2022 - 2023

Leave Blank:

Leave Blank:

Identify related course/program outcomes: Increase equity language to increase success in all CT courses

Person(s) Responsible (Name and Position): Brian Unruh, Instructor of Construction Technology

Rationale (With supporting data):

Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2022 - 2023

08/26/2022

Status: Continue Action Next Year

This is an ongoing action that I plan to have completed this school year. I've known about the need for a revised syllabus which includes a more equitable mind set, but have neglected to complete the task. I have only begun the revision and will continue throughout the school year.

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

Link Actions to District Objectives

District Objectives: 2021-2025

District Objective 3.1 - Reduce equity gaps in course success rates across all departments by 40% from 2021-2025.

Action: 2022-2023 Provide updated tools for students to use during lab activities (VTEA)

Increase student success through the updating and addition of industry driven technology.

Leave Blank: New Action

Implementation Timeline: 2020 - 2021, 2022 - 2023

Leave Blank:

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Identify related course/program outcomes: CT 220 - Outcome #1: After completing this course students will demonstrate proper job site safety and safe use of power tools to avoid personal injury

CT 221 -Outcome #3: After completing this course, students will demonstrate proper maintenance of power tools used on classconstruction projects.

CT 250 - Outcome #3: Given a hand-held circular saw, students will be able to demonstrate its safe and proper operation and pass a safety test on circular saws with 100% accuracy.

Person(s) Responsible (Name and Position): Brian Unruh

Rationale (With supporting data): The construction industry is dependent upon specialized technology used in every area of this industry. Through discussions with my industry partners, I have identified the need for modernization and updates of industry recommended technologies.

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Priority: High

Safety Issue: No

External Mandate: No

Safety/Mandate Explanation:

Update on Action

Updates

Update Year: 2022 - 2023

08/26/2022

Status: Continue Action Next Year

Increase student learning by organizing curriculum and textbooks to streamline from one class to another. This will allow a more cohesive approach to the overall education within the program for students to advance within their education.

***Ongoing*:** This is a continuing process and I plan to continue to update each course as many are up this year for assessment. I currently use the same textbook for the four Construction Practice courses and Basic Carpentry (CT 250). Although each of the practice courses has its own curriculum, there is a lot of overlap in content. Therefore I am working on clarifying the topics in each course which will reduce or eliminate redundancy in course topics.

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

Update Year: 2021-2022

08/10/2021

Status: Action Completed

The new classroom in Cedar has been completed and will be used during this school year for all classroom sessions. Last school year, Shane Baseman used the classroom for CT 100 labs, but the classroom will be used in greater capacity this school year.

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

Update Year: 2022 - 2023

08/10/2021

Status: Action Completed

New electrical outlets have been installed to offer two new miter saw stations in the wood shop. The stations are not yet complete, but will offer more availability for students during lab activities as there is always a backup as students wait for one miter saw.

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

Update Year: 2022 - 2023

09/21/2020

Status: Action Completed

Due to the demolition of the Buckeye building, a temporary classroom is being remodeled in Cedar 425 which will accommodate 22 student stations. The new classroom will have large screens and a computer at each student station that will be an upgrade from the classroom in the Buckeye building.

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

Resources Description

Equipment - Instructional - Purchase new battery tools, carpenter tools, and drywall tools. (Active)

Why is this resource required for this action?: DO 2.2 and 2.4

Currently the COS wood shop does not have adequate carpenter tools to provide students with a real world work experience which will prepare them for their future in construction.

-Student feedback indicates that the current framing hammers are not comparable to the tools that will be used when students become employed in the construction field.

-Tool belts are required while working on wall framing, drywall installation, and other activities performed in the field. Students need tool/nail belts to learn how to finger nails quickly to perform at production level upon employment in the field.

-Current battery tools do not provide long enough battery life and inhibit students from continued operation while working on lab activities. New battery tools will provide longer lasting operation which will allow students to remain on

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task.

Rank #1

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 2000

Equipment - Non-Instructional - Fliers/brochure/video Rank #2 (Active)

Why is this resource required for this action?: Fliers, brochures, and videos are needed to provide marketing for the Construction Technology Department.

This medial will be provided to High school students during campus visits, and at various outreach events. Additionally updated videos will be produced which highlight the Construction Technology department and will be uploaded to the website for promotional purposes.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 5000

Equipment - Instructional - Continuing education for Construction Technology Instructors (Active)

Why is this resource required for this action?: Due to developing technology in the construction field, ongoing education is required for instructors to provide updated information in class.

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 2500

Equipment - Non-Instructional - Existing tool repair. (Active)

Why is this resource required for this action?: Many of the power tools in the wood shop are in need of repair and maintenance.

Items to be repaired are: Large belt sander, Spindle sander, Table Saw blade sharpening, and Panel router air system

Notes (optional):

Cost of Request (Nothing will be funded over the amount listed.): 500

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 2.2 - Increase the number of students who transfer to a four-year institution by 10 percent 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 - 2.2 - Increase the number of students who earn an associate degree or certificate annually.

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

District Objectives: 2021-2025

District Objective 2.1 - Increase the number of students who earn an associate degree or certificate (CTE and non-CTE) by 5% from 2021-2025.

District Objective 2.2 - Increase the number of students who are transfer-ready by 15% and students who transfer to four-year institutions by 10% from 2021-2025.

District Objective 2.4 - Increase the percentage of CTE students who achieve their employment objectives by five percentage points (job closely related to field of study and attainment of a livable wage) and the number of CTE students who successfully complete 9+ CTE units in a single year by 10% from 2021-2025.

