

Industrial Arts Department

AUP for Academic Year 2020-2021

October 2019

Describe Department/Unit

Connection to College Mission

It is the mission of the Industrial Arts Department to provide courses and instruction that will meet the academic, vocational, and general education needs of our students, college, and communities. We provide instruction leading to Associate degrees and certificates in multiple occupational areas including: Welding, Industrial Technician, and Machine Tools. The programs in the Industrial Arts Department provide life-long learning and support to students in their academic, technical, and vocational pursuits. The goal of our programs is to foster in students a lifelong desire to learn, a passion to excel, and a commitment to contribute actively to their local community. Students graduating from the department's programs will be prepared to enter the job market in entry level positions with a variety of focus including but not limited to: construction, mining, manufacturing, drafting, welding, fabrication and machine shops, electronics, railroads, automotive, as well as the aircraft, marine, aerospace, and renewable energy industries.

Report on Improvements Made and Gaps Identified in the Prior Year

Student Equity: Actions Taken

The department held their first annual Manufacturing Day in October 2018. This preview day showcased to students some of the opportunities that the Industrial Arts department can provide them. Attendees were able to test out some of our equipment. The department also attended local outreach days at Cerro Coso Community College along with others in the community.

Student Equity: Gaps to be Addressed

Gender: Female

Gap Identified:

While the Industrial Arts department's female population is lower than the college as a whole, the population is growing. We are excited to announce that we have 7 new female students in the WELD C101 courses. The female population in the 101 course alone, makes up almost 19% of the students in both sections.

Ethnicity: African American

Gap Identified:

The African American population remains our biggest equity gap. The African American population has more than tripled from last years reporting.

Outcomes Assessment: Actions Taken

Actions taken in the prior academic year

No changes have been made as all SLO's have been met.

Assessments completed in the prior academic year

All SLO's are current in their assessments.

Outcomes Assessment: Gaps to be Addressed

Program Review: Actions Taken

Welding Technology

Year of Last Program Review:

2018

Actions Taken in the Prior Year to Address Strategies:

Increasing enrollments. The department's first WELD C101 course is running Fall 2019. This class was wait listed at the beginning of the semester.

Transitioning to OER. We are not currently 100% utilizing OER, however we have made strides to assist students without a text. We are currently using Cengage Mind Tap to help students follow along with the chapter materials in class.

Strategies Still to be Addressed:

Complete modernization of oxy/acetylene lab.

Increase enrollments.

Expand welding facilities to include new and emerging technologies.

Annual Planning: Actions Taken

Create Educational Resources for Courses

This is an ongoing process. We are currently working to find better ways to improve quality of videos.

Modernization of Oxy/Acetylene Laboratory

The original estimated cost was much lower than contractor quotes. We are working with the Dean on other possibilities.

Build storage area for MCTL C107 materials

A storage area for materials and supplies have been built.

Build lockers for foyer room 198

While lockers were built last year, one more set of lockers will be built Fall 2019.

Begin offering Welding Processes Certificate in Tehachapi

We are currently offering a WELD C101 course in Tehachapi.

Review of Current Year Initiatives

Reminder of Initiatives for the Current Year

Begin offering Welding Processes Certificate in Tehachapi

Create educational resources for courses

Hold an open house for the general public

Have a "women in welding" open house day.

Build frames for portable welding curtains

Complete modernization of oxy/acetylene lab

Plan Initiatives for Next Year

Initiatives for Next Academic Year

Expand class offerings at Tehachapi

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

Begin offering WELD C102 and WELD C200 in Tehachapi Spring 2020. WELD C101 is currently running in Tehachapi

Lead Measure of Success:

WELD C101, WELD C102, and WELD C200 on the schedule for Spring 2020.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Begin teaching classes.

Person Responsible:

Department Chair

It addresses a program review strategy

Increase enrollments.

Which strategic goal does this initiative address?

Goal 3: Ensure Student Access

Begin offering morning classes.

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

We plan to start by offering WELD C101 in the 10:00am time slot. Traditionally, the majority of our students have made it clear to the department, that they need mostly evening classes. We would like to attempt to run a morning cohort to potentially draw from another population of students that can not attend evening classes.

Lead Measure of Success:

A second session of WELD C101 on the schedule in a morning time frame

Marketing to a different population of students who need more morning classes.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

Yes

Lag Measure of Success:

Offering morning classes

Person Responsible:

Department Chair

It addresses a program review strategy

Increasing enrollments.

Which strategic goal does this initiative address?

Goal 3: Ensure Student Access

Fabricate fixture stand for welding booths

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

Build and install fixture stands in which students can use to more welding practice. This will give students more room in the booths in order to attempt more weld exercises, thus increasing their capabilities.

Lead Measure of Success:

Purchasing materials.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Fabricating and installing fixtures.

Person Responsible:

Department Chair

Other

It addresses potential gaps in student's overall abilities to improve performance and helping them to get better paying jobs.

Which strategic goal does this initiative address?

Goal 1: Maximize Student Success

Complete Process Technician Certificate

Is this part of a multiyear initiative?

No

Specific Action Steps to be Taken:

Present Process Technician Certificate to CIC.

Lead Measure of Success:

Compete two reads through CIC.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Certificate is approved through CIC.

Person Responsible:

Department Chair

It addresses a program review strategy

Increase enrollments.

Which strategic goal does this initiative address?

Goal 2: Advance Student Equity Measures, Goal 3: Ensure Student Access

Implement D1.1 Structural weld test

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

The department will begin offering a structural welding test to students known as a D1.1 structural weld test. This will be a destructive weld test that students will take in order to help them have more skills to land a higher paying job.

Lead Measure of Success:

Begin offering test in WELD C210.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Students completing tests.

Person Responsible:

Other

Improving student skill level.

Which strategic goal does this initiative address?

Goal 1: Maximize Student Success

Have a "women in welding" open house day.

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

Marketing, securing supplies and consumables, preparing projects for visitors to attempt.

Lead Measure of Success:

Working with marketing team to prepare marketing materials. Working with vendors to secure needed supplies and consumables.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Increasing the female population.

Person Responsible:

Department Chair

It addresses a gap in student equity

Student equity

Which strategic goal does this initiative address?

Goal 3: Ensure Student Access

Complete modernization of oxy/acetylene lab

Is this part of a multiyear initiative?

Yes

Specific Action Steps to be Taken:

Modernization of the existing oxy/acetylene lab to accommodate 24 individual work stations. This would require re-piping of oxygen and actylene gases, new work tables/stations, torches and regulators, and removal of office in the middle of the room.

Lead Measure of Success:

Begin renovation of existing lab.

Are any of the lead measures identified above lacking assessment instruments?

No

Does the department request help to develop these instruments?

No

Lag Measure of Success:

Completion of the modernization of the existing lab.

Person Responsible:

Faculty, department chair, maintenance and operations

It addresses a program review strategy

Complete modernization of oxy/acetylene lab.

Which strategic goal does this initiative address?

Goal 1: Maximize Student Success

Evaluate Resource Needs

Facilities

Remove center office in Oxy/Acetylene lab.

Remove automotive lift in the backyard.

Remove solar house in the backyard.

Have needed repairs made to our iron worker in the Oxy/Acetylene lab.

Remove vacuum exhaust unit from the North wall of room WW147.

Roller stands for new cold saw are needed.

Pipe stands with rollers 6ea.

Portable fume extractor 2ea.

Better lighting in room WW147 above the welding booths.

4 plasma cutters.

Repair/replace air lines in room 198 and 147 along with air hoses.

Repaint classrooms and offices. Current area is old and dated.

Remove outer walls of the tool storage area in WW198.

Information Technology

Video projection equipment with wireless connection from computers for room 147, 192, and 198 is requested.

Marketing

Brochures made for outreach days we plan to do each year.

Ads in swap sheet and local newspapers to assist in boosting enrollments.

Videos on college website.

Marketing to a different population of students who tend to take more morning classes than evening.

Professional Development

Department members wish to attend conferences, work shops, or events (primarily Fab Tech)related to trade skills or opportunities to find new program ideas to bring to Cerro Coso.

Research and Data

N/A

Staffing Requests

1000 Category - Certificated Positions

Industrial Arts

Location:

Ridgecrest/IWV

Justification:

We are not requesting any additional faculty members at this time.

2000 Category - Classified Staff

Industrial Arts TA

Location:

Ridgecrest/IWV

Salary Grade:

Number of Months:

Number of Hours per Week:

40

Salary Amount:

Justification:

The department is asking to have our current TA moved from 30 hours per week to 40 hours per week. We are now beginning to offer the Welding Processes Certificate in Tehachapi. This is adding more work to our current TA