

**Industrial Arts Department**  
**AUP for Academic Year 2019-2020**  
October 2018

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## **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.

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## **Report on Improvements Made and Gaps Identified in the Prior Year**

### **Student Equity: Actions Taken**

The department has began planning an outreach day directed towards the female population.

### **Student Equity: Gaps to be Addressed**

#### **Gender: Female**

##### **Gap Identified:**

One of the largest equity gaps that continues to be identified is the female population. While our numbers are still low, we are happy to report that we had a 3% increase from last years planning. While this is not abnormal to have a low female enrollment, the department is taking measures to try and increase these numbers.

#### **Ethnicity: African American**

##### **Gap Identified:**

The African American population is very low, 1% for 2017-2018.

### **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 in each course 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:**

Updated brochures have been created.

Live welding videos have been created.

Increase dual enrollment offerings. Mojave High School is back to running a WELD C101 course.

Materials storage area for the MCTL C107 course has been built.

More lockers have been built for students to keep their personal protective gear in.

Equipment has been purchased to hopefully begin offering a WELD C101 course in Tehachapi in Spring 2019.

##### **Strategies Still to be Addressed:**

Complete modernization of oxy/acetylene lab.

Increasing enrollments.

Transition to OER.

Expand welding facilities to include new and emerging technologies.

### **Annual Planning: Actions Taken**

#### **Create Educational Resources for Courses**

This is an ongoing process. There are several videos that have been made and more videos to come. We are currently looking at ways to improve video quality.

#### **Modernization of Oxyacetylene Laboratory**

The plans have been finalized. This is scheduled to begin Summer of 2019.

#### **Machining Class Equipment**

The Industrial Technology program has been deleted. We currently have a few items in motion to bring a new program to take the place of the Industrial Technology program.

#### **Professional Development**

The department had planned to attend WesTec trade show in the Fall of 2018. This was unable to happen as they changed the format to every other year. We plan to attend in Fall of 2019.

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## Review of Current Year Initiatives

### Reminder of Initiatives for the Current Year

#### Create Educational Resources for Courses

N/A

#### Modernization of Oxy/Acetylene Laboratory

N/A

#### Build storage area for MCTL C107 materials

N/A

#### Build lockers for foyer room 198

N/A

#### Begin offering Welding Processes Certificate in Tehachapi

N/A

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## Plan Initiatives for Next Year

### Initiatives for Next Academic Year

#### Begin offering Welding Processes Certificate in Tehachapi

Is this part of a multiyear initiative?

No

#### Specific Action Steps to be Taken:

Begin teaching classes. Equipment has been purchased.

#### Lead Measure of Success:

Adjunct accepting position.

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**

Increasing enrollments.

**Which strategic goal does this initiative address?**

Goal 3: Ensure Student Access

**Create educational resources for courses**

**Is this part of a multiyear initiative?**

Yes

**Specific Action Steps to be Taken:**

Produce more live welding videos for student viewing.

**Lead Measure of Success:**

Student understanding of particular exercise.

**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:**

Increased student success.

**Person Responsible:**

Faculty

**It addresses a gap in student equity**

This can affect every population.

**Which strategic goal does this initiative address?**

Goal 1: Maximize Student Success

**Hold an open house for the general public**

**Is this part of a multiyear initiative?**

Yes

**Specific Action Steps to be Taken:**

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

**Lead Measure of Success:**

Working with the marketing team to prepare marketing items. Working with vendors to secure supplies and consumable.

**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:**

Enrollment numbers increasing.

**Person Responsible:**

**It addresses a program review strategy**

Increasing enrollments.

**Which strategic goal does this initiative address?**

Goal 3: Ensure Student Access

**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 our female enrollments.

**Person Responsible:**

Faculty

**It addresses a gap in student equity**

Female population.

**Which strategic goal does this initiative address?**

Goal 2: Advance Student Equity Measures

**Build frames for portable welding curtains**

**Is this part of a multiyear initiative?**

No

**Specific Action Steps to be Taken:**

Cut and build frames to support welding curtains.

**Lead Measure of Success:**

Ordering supplies needed to build frames.

**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:**

Frames completed.

**Person Responsible:**

Faculty

**Other**

This project would make the overall area a safer workplace for students.

**Which strategic goal does this initiative address?**

Goal 2: Advance Student Equity Measures

**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 new exhaust duct work, re-piping of oxygen and acetylene 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

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## Evaluate Resource Needs

### Facilities

Modernization of the Oxy/Acetylene lab.

Removal of the center office in the Oxy/Acetylene lab.

Remove automotive lifts in the back yard.

Remove solar house in the back yard.

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

Work stations, piping, and venting for modernization/upgrading of Oxy/Acetylene lab room WW 192.

Remove vacuum exhaust unit from North wall of room WW147.

Roller stands for new cold saw.

Sumner pipe stands 6ea.

Pipe stand with rollers 6ea.

Welding curtain material for portable welding curtains.

Portable fume extractor 2ea.

Desktop 3D printers 20ea.

Better lighting in room WW147. The current lighting casts shadows in the welding booths making it difficult to see.

4 plasma cutters

## Information Technology

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

## Marketing

Brochures made for outreach days we plan to do every year (manufacturing day, women in welding).

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

Videos on college website.

## Professional Development

Department members wish to attend conferences, work shops, or events related to trade skills or teaching/learning skills as opportunity arises.

Department members would like to attend the WestTec trade show in the Fall of 2019.

Attend flex day activities.

## Research and Data

N/A

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## 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 planning to offer the Welding Processes Certificate in Tehachapi starting Spring 2019. While Tony's primary position will be at the IWV campus, there will be times he may be needed in Tehachapi. He will be cutting materials and preparing assignments and supplies on a weekly basis to be transported to Tehachapi. Deanna Campbell has recently reached out to the department to assist in the purchase of welding equipment to start offering the Welding Processes Certificate in Mammoth and possibly Bishop. This could potentially lead to more work on our Ta as well. The department also has another program in the works with hopes to bring through CIC in the Spring 2019 semester. This will also require more work on our TA.