



Program Review Report

Program Review - Automotive Technology

2024 - 2025 Academic Program Review

What are the strengths of your area?

Strengths:

1. Enrollment - the AUTO program has seen consistent growth. FTES of 105.15 FTES in 2023-2024 which is an good increase from FTES in 2022-2023 83.43. Seats filled at Census Date was 93% for 2023-2024 while is was at 85% at 2022-2023.
2. Efficiency is at 12.90 for 2023-2024 which is higher than 12.41 in 2022-2023.
3. Success rate- overall pass rate for AUTO classes was 78.4% in 2023-2024- this was based on 517 grades. This is a slight decrease from 81.4% based on 451 grades in 2022-2023.
4. Equity - the overall pass rate for the past five year is 77.4% for all AUTO students; the pass rate of white students was at 79.7%, 77.2% Hispanic, and 75% for mulit-ethnic studnets. This indicates all students are succeeding with a very small equity gap.
5. Awards and Certificates: 115 seperate AUTO students received a total of 225 awards in 2023-2024.

13 AS AUTO

74 Certificates in AUTO

0 Certificates in Brakes

5 Certificates in Electrical

72 Certificates in Engine

23 Certificates in Chassis

9 Certificates in EM/TC

29 Certificates in Autopower

What improvements are needed?

1. Lab support - the AUTO courses are very full and a second faculty member allows classes to be taught at the same time. The new Applied Technology and Trades building has allowed the AUTO schedule to become more robust and therefore requires additional lab support as they are scheduled back to back.
2. Yearly operating expenses for the AUTO program have increased with the hiring of a second full time instructor and a budget augmentation to cover program growth in necessary; the specific need is for the Zspace subscription of \$30,000.
3. AUTO students need improved employment tracking in order to codify effectiveness in the Strong Workforce and Perkins grant reports.

Program Review - Automotive Technology: Actions and Resource Request

With the purchase of 26 zSpace 3D computers 4 years ago, updates have been paid for with VTEA/Perkins funds, but this now needs to be sustained with departmental budget.

2024-2025 Continued subscription to 3D computer software
Action Status: Active
Implementation Timeline: 2024 - 2025
Person(s) Responsible (Name and Position): Donal Howell Automotive Technology head, Jonna Schengel CTE Dean
Rationale (With supporting data): The 25 zSpace laptops and 1 instructor all-in-one have been instrumental in introducing students to Automotive Technology concepts, particularly in areas of Hybrid and Electric vehicle. The students are able to interact virtually through 3D screens and hand gestures to manipulate automotive parts and tools. Continuing the annual updates will allow this significant investment to remain relevant to the program/
Priority: High
Safety Issue: No
External Mandate: No

Resources Description	Update on Action
Resource Request Status: Active Resource Type: Adjustment to Base Budget Why is this resource required for this action?: A base budget is being requested as this can no longer be grant funded after the 2024-2025 academic year. Cost of Request: 30,000	

Hiring of a full-time lab technician to oversee shop maintenance and safety.

2024-2025 Lab Technician for Automotive courses
Action Status: Active
Implementation Timeline: 2024 - 2025
Person(s) Responsible (Name and Position): Jonna Schengel CTE Dean, Donal Howell, Melvin Roman
Rationale (With supporting data): All automotive technology courses have an enrollment cap of 30 students and lab activities are being run simultaneously in a shared space. This means two courses may have 30 students involved in lab activities, for a total of 60 students at a time. The oversight for these activities is left up to 2 instructors in a large space with sometimes limited visibility. A third person who can be responsible for providing tools, materials, and expedient setup leaves the instructors more available for oversight, increasing student success and safety.
Priority: High
Safety Issue: Yes
External Mandate: No
Safety/Mandate Explanation: As mentioned in Rationale, one instructor overseeing 30 students is not sufficient for safety of the students.

Program Review - Automotive Technology: Actions and Resource Request

Resources Description	Update on Action
Resource Request Status: Active Resource Type: Personnel - Classified/Confidential Why is this resource required for this action?: To provide safety oversight as well as maintain equipment/tool inventory for all AUTO classes Cost of Request: 100,000	

An Instructional Designer would benefit all programs with assistance in designing LMS pages and other course activities, while allowing for academic freedom.

2024-2025 Instructional Designer for all programs

Action Status: Active

Implementation Timeline: 2024 - 2025

Person(s) Responsible (Name and Position): Jonna Schengel CTE Dean, Randy Emery I&T Division Chair, Donal Howell, Faculty

Rationale (With supporting data): The district is far behind other colleges in the hiring of an instructional designer.

Priority: High

Safety Issue: No

External Mandate: No

Resources Description	Update on Action
Resource Request Status: Active Resource Type: Personnel - Faculty Why is this resource required for this action?: This is considered best practices at the college level. Most colleges have an Instructional Designer or Center for Teaching excellence. Cost of Request: 150,000	

AUTO faculty will attend various conferences to address equity strategies and faculty development to continue to see improvement in student success rates

2023-2024 Improve student success rates in various groups through faculty development (Perkins)

Implementation Timeline: 2023 - 2024

Identify related course/program outcomes: Increase success rates of all disproportionately impacted student groups in AUTO courses

Person(s) Responsible (Name and Position): Donal Howell, Melvin Roman, Jonna Schengel

Rationale (With supporting data): See improvements needed - student success data

Priority: High

Program Review - Automotive Technology: Actions and Resource Request

Safety Issue: No

External Mandate: Yes

Safety/Mandate Explanation: Chancellor's office requires equity strategies and faculty development in areas of DEI.

Mapping

District Objectives: 2021-2025: (X - Highlight Selected)

- **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. (X)
- **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. (X)

Hire a full time or part time lab technician that can set up labs, inventory and check out tools, prepare lab practical for all AUTO courses. With two full time faculty the AUTO classes have to be flipped quickly and lab set up requires auto expertise.

2023-2024 Provide optimal use of lab space to serve students with a lab technician

Implementation Timeline: 2023 - 2024

Person(s) Responsible (Name and Position): Donal Howell, Melvin Roman

Rationale (With supporting data): Volume of AUTO students has increased over the last 5 years; two full time faculty share lab space;

Priority: Medium

Safety Issue: Yes

External Mandate: No

Safety/Mandate Explanation: Equipment in auto is very expensive and requires proper storage and use to make sure students are safe in lab

Resources Description	Update on Action
Resource Request Status: Active Resource Type: Personnel - Classified/Confidential Why is this resource required for this action?: for safety and efficiency of lab; could be shared with AG Mechanics Cost of Request: 75,000	

Collaborate with local high schools to provide future students with the correct and proper basic knowledge to be successful in the Auto program.

2023-2024; 2022-2023 Strengthen the Auto program pathway connections with the local high schools.

Implementation Timeline: 2022 - 2023, 2023 - 2024

Person(s) Responsible (Name and Position): Donal Howell and Melvin Roman

Program Review - Automotive Technology: Actions and Resource Request

Priority: High

Safety Issue: No

External Mandate: No

Mapping

District Objectives: 2021-2025: (X - Highlight Selected)

- **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. (X)

Update
Update Date: 10/11/2023 Update: This action was not fully completed. Mission Oak HS is building an AUTO shop and the CTE HS Liaison is scheduling an appointment to align this HS AUTO program with the COS AUTO program. This action needs to be continued. Update Year: 2023 - 2024

Relocate AUTO classes to the NEW CTE building in COS and provide equipment purchases via several resources such as F3, SW 7,8 and Perkins.

2023-2024 Increase success rates for AUTO Courses, certificates and AS degrees by providing state of the art AUTO lab facility and equipment

Implementation Timeline: 2023 - 2024

Identify related course/program outcomes: Program outcomes will be met by offering courses in the new AUTO lab.

Person(s) Responsible (Name and Position): Donal Howell, Melvin Roman, Jonna Schengel

Rationale (With supporting data): LMI for AUTO technicians is strong.

Priority: High

Safety Issue: Yes

External Mandate: No

Mapping

District Objectives: 2021-2025: (X - Highlight Selected)

- **District Objective 1.1:** The District will increase FTES 2% from 2021 to 2025. (X)
- **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. (X)
- **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. (X)

Resources Description	Update on Action
Resource Request Status: Active Resource Type: Equipment - Instructional	

Program Review - Automotive Technology: Actions and Resource Request

Resources Description	Update on Action
Why is this resource required for this action?: Original grants funds, F3, have been reduced and other grant and Perkins funds will be used to set up the new AUTO lab. Cost of Request: 25,000	