Advisory Committee Fall 2024 Minutes
Welding
October 30, 2024 - Noon
–Skills Training Center, Multipurpose Room 400

Members Present
Jeremy Palacios
Joey Davis
Jim Harris
Mark Patterson
Blair Shipp
Brian Aldrich

Vernon College Faculty/Staff
Bettye Hutchins
Zachary Nguyen-Moore
Chaz Tepfer
Mark Cisneros
Mark Holcomb

Members Not Present
Johnny Brown
Tom Ostovich

Welcome and Introductions .....David (Chaz) Tepfer
Chaz Tepfer welcomed committee members and invited all to introduce themselves.

Purpose of Advisory Committee .....Bettye Hutchins
Bettye Hutchins reviewed the purpose and importance of advisory committees and the role they play at Vernon College.

Election of Vice Chair, and Recorder .....Bettye Hutchins
Bettye Hutchins explained the roles of vice chair and recorder and invited the committee to volunteer or nominate others for these roles.

Chair – Jeremy Palacios
Volunteer for Vice Chair – Mark Patterson
Volunteer for Recorder – Brian Aldrich

New Business .....Jeremy Palacios

A. <u>Review program outcomes</u>

Jeremy Palacios asked Chaz Tepfer to review the program outcomes listed below.

Program outcomes

1. Correctly read and interpret blueprints and weld symbols.
2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.

3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint.

Program outcomes mapped to courses

Program: Welding Award: Welding Associate in Applied Science (AAS) Degree Cip: 48.0508						**Credential: Associate in Applied Science (AAS) Degree**	
LIST OF ALL COURSES REQUIRED AND OUTCOMES							
OUTCOMES						**Course Number**	**Course Title**
1	**2**	**3**	**4**	**5**	**6**		
X	X				X	WLDG 2443**	Advanced Shielded Metal Arc Welding (SMAW)
X		X			X	WLDG 2447 **	Advanced Gas Metal Arc Welding (GMAW)
					X	WLDG 1337*	Introduction to Welding Metallurgy
X					X	WLDG 1313*	Introduction to Blueprint Reading for Welders
X	X	X	X	X	X	WLDG 1317*	Introduction to Layout and Fabrication
X	X	X	X	X	X	WLDG 1327**	Welding Codes and Standards
X	X					WLDG 1428*	Introduction to Shielded Metal Arc Welding (SMAW)
X		X				WLDG 1430*	Introduction to Gas Metal Arc Welding (GMAW)
X				X		WLDG 1434*	Introduction to Gas Tungsten Arc (GTAW) Welding
X	X	X	X			WLDG 1435*	Introduction to Pipe Welding
X	X	X	X	X	X	WLDG 2413**	Intermediate Welding Using Multiple Processes
X	X	X	X	X	X	WLDG 2453**	Advanced Pipe Welding
					6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint.		

5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.
1. Correctly read and interpret blueprints and weld symbols.

1. **Approve program outcomes**

Jeremy asked if there were any questions or comments. With no additional discussion, he asked for a motion to approve the program outcomes as presented.
Brian Aldrich made a motion to approve.
Jim Harris seconded the motion.
The motion passed and the committee approved the program outcomes as presented.
Jeremy then moved on to assessment methods.

B. Assessment methods and results

Jeremy Palacios asked Chaz Tepfer to review the assessment methods. There have been no changes, so Chaz gives a brief reminder of his assessment methods.

It involves a careful visual examination of the weld and its surrounding area for visible defects such as cracks, incomplete penetration, porosity, undercutting and weld profile irregularities. With constant repetition and arc time the student works to fine tune the weld bead so that no discontinuities are visible.

After review, Jeremy then moved on to assessment methods.

1. **Approve assessment methods and results**

After review, Jeremy asked if there were any questions or comments. With no additional discussion, Jeremy asked for a motion to approve the assessment methods as presented.
Jim Harris made a motion to approve.
Joey Davis seconded the motion.
The motion passed and the committee approved the assessment methods as presented.
Jeremy then moved on to workplace competency.

C. Workplace competency (course or exam)

Jeremy Palacios asked Chaz Tepfer to review the following workplace competency information.

Capstone: WLDG 1327:

The purpose of the Capstone course is so the student(s) can demonstrate what they have learned during the 1 ½ years in the program and gain confidence they are ready to pursue a job in the area of Welding Technology.

The method of grading in the Capstone course WLDG1327 Welding Codes and Standards is through various Qualification tests. The tests that are offered are 3G plate and 6G pipe, the weld joint is prepared by the student and then welded each pass is visually inspected. If the welded joint passes, the Visual Inspection then the student will cut coupons out of the welded joint to be bend tested, on the plate coupon there is 1 Root bend and 1 Face bend, on the pipe coupon there is 2 Root bends and 2 Face bends. After the bend tests have been completed, they are Visually Inspected to the (AWS) D1.1 or API 1104 Standard. This is a pass or fail test, if the student does not pass the test on the first try he/she will work to correct any discontinuity or defect to pass the test the next time.

Program Outcome	Number of students who took the course or licensure exam	Results per student	Use of results
1. Correctly read and interpret blueprints and weld symbols.	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	Comments below
2. Safely demonstrate Shielded Metal Arc Welding (SMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	
3. Safely demonstrate Gas Metal Arc Welding (GMAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	
4. Safely demonstrate Flux Core Arc Welding (FCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	
5. Safely demonstrate Gas Tungsten Arc Welding (GTAW) processes in flat, horizontal, vertical, and overhead	4 students Fall 22 4 students Spring 23 0 students Sum 23	75% 75%	

positions to American Welding Society (AWS) and industry standards.			
6. Select appropriate materials, tools, and equipment to construct metal projects to specification as dictated by the blueprint	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	
7. Safely demonstrate Metal Cored Arc Welding (MCAW) processes in flat, horizontal, vertical, and overhead positions to American Welding Society (AWS) and industry standards.	4 students Fall 22 4 students Spring 23 0 students Sum 23	100% 100%	

1. **Approval of workplace competency**

After review, Jeremy asked if there were any questions or comments. With no additional discussion, Jeremy asked for a motion to approve the workplace competency as presented.
Joey Davis made a motion to approve.
Jim Harris seconded the motion.
The motion passed and the committee approved the workplace competency as presented.
With no applicable program specific accreditation, Jeremy then moved on to review program curriculum/courses/degree plans.

D. Review program curriculum/courses/degree plans

Jeremy Palacios asked Chaz Tepfer to review the curriculum, courses, and degree plan. Chaz went on to explain the addition of prerequisites to some of his courses.

Basic Welding, Level 1 Certificate

CIP 48.0508

Instructional Location – Skills Training Center

CERTIFICATE OF COMPLETION (Probable Completion Time - 32 weeks or 2 semesters)
Major Requirements (25 SH)

LEAD 1100	Workforce Development with Critical Thinking	1
WLDG 1317	Introduction to Layout and Fabrication *	3
WLDG 1337	Introduction to Welding Metallurgy	3

WLDG 1313	Introduction To Blueprint Reading For Welders	3
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW) (A)	4
WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
	Total Credit Hours:	**26**

(A) Course included on the State's Advanced Technical Credit list. (See Advanced Technical Credit.)

Advanced Welding, Level 1 Certificate

CIP 48.0508

Instructional Location – Skills Training Center

CERTIFICATE OF COMPLETION (Probable Completion Time - 32 Weeks or Two Semesters)

Major Requirements (20 SH)

WLDG 1327	Welding Codes and Standards	3
WLDG 2413	Intermediate Welding Using Multiple Processes **	4
WLDG 2453	Advanced Pipe Welding ***	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	4
	Total Credit Hours:	**19**

Add AWS D1.1 Structural Steel qualification to WLDG 1327

Welding, A.A.S.

CIP 48.0508

Instructional Location - Skills Training Center

ASSOCIATE IN APPLIED SCIENCE DEGREE (Probable completion Time - 2 years)

General Education Requirements (15 SH)

ENGL 1301	Composition I	3
GOVT 2305	Federal Government (Federal Constitution and Topics)	3
MATH 1314	College Algebra	3

	or	
MATH 1332	Contemporary Mathematics	3
SPCH 1315	Public Speaking	3
LEAD 1100	Workforce Development with Critical Thinking	1
SFF>	Language, Philosophy, and Culture or Creative Arts Elective	3

Major Requirements (45 SH)

WLDG 1337	Introduction to Welding Metallurgy	3
WLDG 1313	Introduction To Blueprint Reading For Welders	3
WLDG 1317	Introduction To Layout And Fabrication *	3
WLDG 1327	Welding Codes and Standards	3
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW) (A)	4
WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG 1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG 1435	Introduction to Pipe Welding	4
WLDG 2413	Intermediate Welding Using Multiple Processes**	4
WLDG 2453	Advanced Pipe Welding ***	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	4
	Total Credit Hours:	**60**

- **Add Prerequisite 1434*
- *** Add Prerequisites 1313, 1428, 1430,1434*
- **** Add Prerequisite 1434*

> To be selected from the following: ARTS 1301, DRAM 1310, DRAM 2366, ENGL 2322, ENGL 2323, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, HIST 2311, HIST 2312, MUSI 1306

***(A)** Course included on the State's Advanced Technical Credit list. (See Advanced Technical Credit.)*

Add AWS D1.1 Structural Steel qualification to WLDG 1327

	Occupational Skills Award: 1 Basic Welding	
WLDG 1313	Introduction To Blueprint Reading For Welders	3
WLDG 1428	Introduction to Shielded Metal Arc Welding (SMAW)(A)	4
~~LEAD 1100~~	~~Workforce Development w/Crit Thkg~~	- -
WLDG 1430	Introduction to Gas Metal Arc Welding (GMAW)	4
	Total hours	11
	Occupational Skills Award: 2 Advanced Welding	
WLDG 2453	Advanced Pipe Welding	4
WLDG 2443	Advanced Shielded Metal Arc Welding (SMAW)	4
WLDG 2447	Advanced Gas Metal Arc Welding (GMAW)	4
	Total hours	**12**

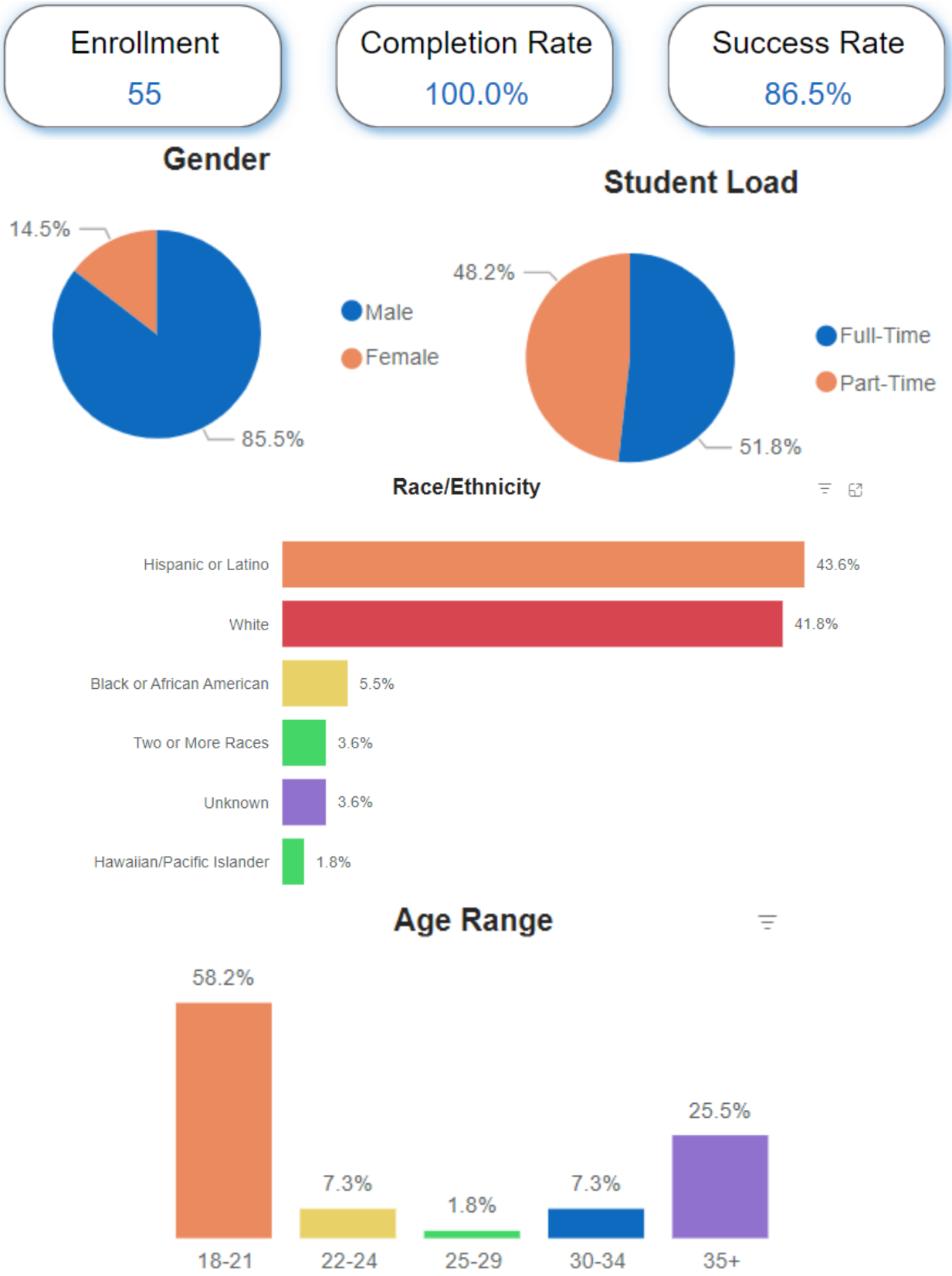
1. **Approve program revisions**

After review, Jeremy asked if there were any questions or comments. With no additional discussion, Jeremy asked for a motion to approve the curriculum/courses/degree plans as presented.
Sammy Brooks made a motion to approve.
Tom Ostovich seconded the motion.
The motion passed and the committee approved the curriculum/courses/degree plans as presented.
Jeremy then moved on to statistics.

E. Statistics:

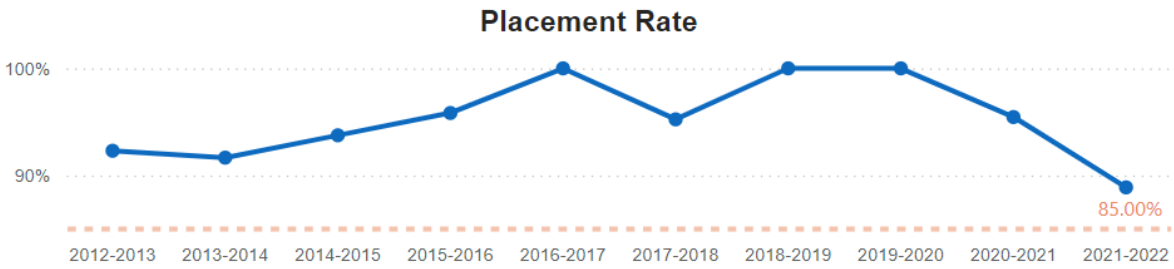
Jeremy Palacios asked Chaz Tepfer to review the following statistics:

- Program Statistics:
  - Graduates 2023-2024: 8
  - Enrollment Summer 2024: 42
  - Majors Fall 2024-2025: 60
  - Enrollment Fall 2024: 146

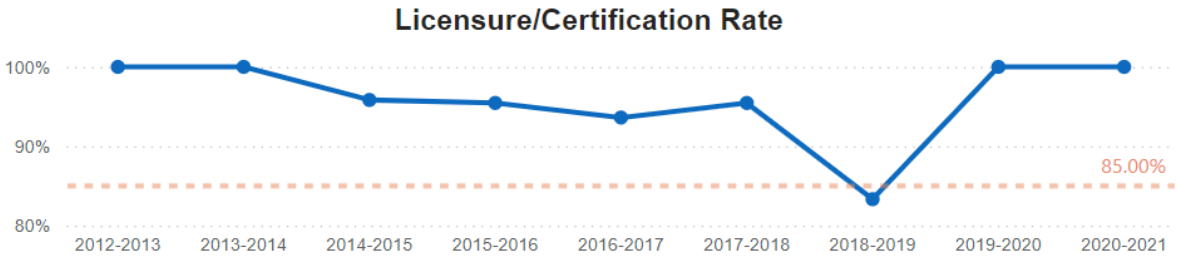


*Fall 2023 Data

Program Completer Placement Rate - % of program completers who are employed or pursuing additional education within one year of graduation.



Licensure/Certification Rate - % of students who successfully passed a licensure/certification examination in a given academic year.



F. Local Demand/ Labor Market Outlook

Jeremy Palacios asks Bettye Hutchins to review the following labor market outlook information and questions whether the data provided is accurate. Bettye next asks questions from the Comprehensive Local Needs Survey, collecting information used in reporting to the state. After the CLNA survey, Jeremy then moved on to review facilities, equipment, and technology.

Occupation	National Median Wage	State Median Wage	Local Median Wage	Current /Projected Job openings (annual)	Projected Growth (annual)
Welders, Cutters, Solderers, & Brazers	$24.26/hr $46,579/annual	$25.24/hr $48,460/annual	$23.12/hr $44,398/annual	6,792 (state) 70 (local)	2.11% (state) .29% (local)
Welding, Soldering, & Blaxing Machine Setters, Operators, & Tenders	$22.14/hr $42,566/annual	$24.89/hr $47,788/annual	n/a	303 (state)	1.12% (state)
1st Line Supervisor- Production & Operating Workers	$33.22/hr $63,782/annual	$33.36/hr $64,051/annual	$31.09/hr $59,695/annual	5,926 (state) 42 (local)	1.54% (state) .86% (local)

*Labor Market Outlook (O*NET)

G. **Evaluation of facilities, equipment, and technology. Recommendation for the acquisition of new equipment and technology**.

Jeremy Palacios asked Chaz Tepfer to review the following information regarding facilities, equipment, and technology.

This summer we bought a new portacool. Hopefully a SAW Table in the future.

After review, Jeremy asked if there was any suggested equipment to look into for the program. With no further discussion to be had, Jeremy moved on to professional development.

H. Professional development of faculty and recommendations

Jeremy Palacios asked Chaz Tepfer to review professional development. Chaz reviewed his latest professional development opportunities and discussed upcoming possibilities. Chaz asked for any suggestions, then with no further discussion, moved on to promotion and publicity.

Vernon College has several faculty development opportunities throughout the year, face-to-face and online development training. I am currently in the process of getting paper work together to take my nine year recertification for welding inspector. I will go to a one week seminar in Dallas in April.

I. Promotion and publicity (recruiting) for the program

Jeremy Palacios asked Chaz Tepfer to review promotion methods. Chaz reviewed promotion and publicity/recruiting practices. Bettye Hutchins added information regarding marketing efforts funded by the Office of Instructional Services as well as the duties of the CTE Navigator in visiting area junior highs, high schools, and community events. After review, Jeremy asked if there were any comments or suggestions. With no further discussion, he then moved on to special populations.

Vernon College is always trying to promote the Welding Program through several outlets; Web-Site, Facebook, Twitter, Instagram etc.. I also have a great relationship with the instructors at the CEC center and local high school welding programs.

J. Serving students from special populations:

Jeremy Palacios asked Chaz Tepfer to review the definitions of special populations and the services available to those who apply. Bettye Hutchins goes on to expand on the services covered by the college and it's various departments, including emergency aid funding and a new food pantry located in each campus.

Vernon College is an open-enrollment college. The Proactive Assistance for Student Services (PASS) department offers many services for documented disabilities such as but not limited to quiet testing, longer testing times, interpreters, and special equipment.

Vernon College has a program titled "New Beginnings" for students who qualify to receive transportation, childcare, and/or textbook loans. Perkins funding is also offering assistance to break down barriers such as uniform, supply, and equipment costs.

Peer to Peer mentoring, tutoring (online and in-person), resume building, student success series, and counseling are just a few of the other options/services available to students.

1. Special population's new definitions:
    a. Individuals with disabilities;
    b. Individuals from economically disadvantaged families, including low-income youth and adults;
    c. Individuals preparing for nontraditional fields; 8 females, rest males
    d. Single parents, including single pregnant women;
    e. Out-of-workforce individuals;
    f. English learners;
    g. Homeless individuals described in section 725 of the McKinney-Vento Homeless Assistance Act (42 U.S.C. 11434a);
    h. Youth who are in, or have aged out of, the foster care system; and
    i. Youth with a parent who—
        i. is a member of the armed forces (as such term is defined in section 101(a)(4) of title 10, United States Code);
        ii. is on active duty (as such term is defined in section 101(d)(1) of such title).

Jeremy Palacios asked if the committee had any further action, discussion or recommendations. With no further discussion to be had, Jeremy adjourned the meeting at 10:21am.

Recorder Signature	Date	Next Meeting: Fall 2025
Brian Aldrich	3/26/25	