

The seal of the Nevada System of Higher Education is a circular emblem. The outer ring contains the text "NEVADA SYSTEM OF HIGHER EDUCATION" at the top and "1865" at the bottom, flanked by two stars. The inner circle features a landscape with mountains, a sunburst, and a building. Below the landscape, the Latin phrase "OMNIA PRO PATRIA" is inscribed.

CTE Briefing

Agenda Item V C-1 (EDUCATION)
Meeting Date: 02-15-18

College of Southern Nevada and Clark County School District

Dr. Clarissa M. Cota, Interim Vice President of Academic Affairs, and
Ms. Leticia Wells, Coordinator of CTE College Credit, College of Southern Nevada
&

Dr. Jesse Welsh, Assistant Superintendent, and
Ms. Felicia Gonzales, School Associate Superintendent - Career Technical Academies
& PZ6, Clark County School District

CSN Dual & Concurrent Enrollment

Program Examples

- Three CSN High Schools (one on each campus)
 - 551 students – Academic Year 2017-18
- Jumpstart Concurrent Enrollment Program
 - 1,513 Students at 22 high schools – Academic Year 2017-18
- CTE Articulated College Credit Program
 - 628 students for 3,779 college credits – Academic Year 2015-16
 - 880 students for 5,665 college credits – Academic Year 2016-17

Service Area

Immediate service area includes Clark, Lincoln and Nye Country School Districts

- 51 High Schools
 - 6 Career and Technical Academies
 - 8 Rural High Schools

Statewide Articulations Agreements

2017-2018

CTE Program Areas	Articulation Agreements	CSN Articulated Courses	Point Award Limited Entry	CSN Degree and/or Certificate Pathways
Business & Marketing	8	8	n/a	8
Education, Hospitality & Human Services	5	7	n/a	12
Health Sciences & Public Safety	10	15	6	20
Information & Media Technologies	9	16	n/a	23
Skills & Technical Services	11	16	n/a	32
TOTAL	43	62	6	95

Participation & Cost Savings

FY 16 and FY 17

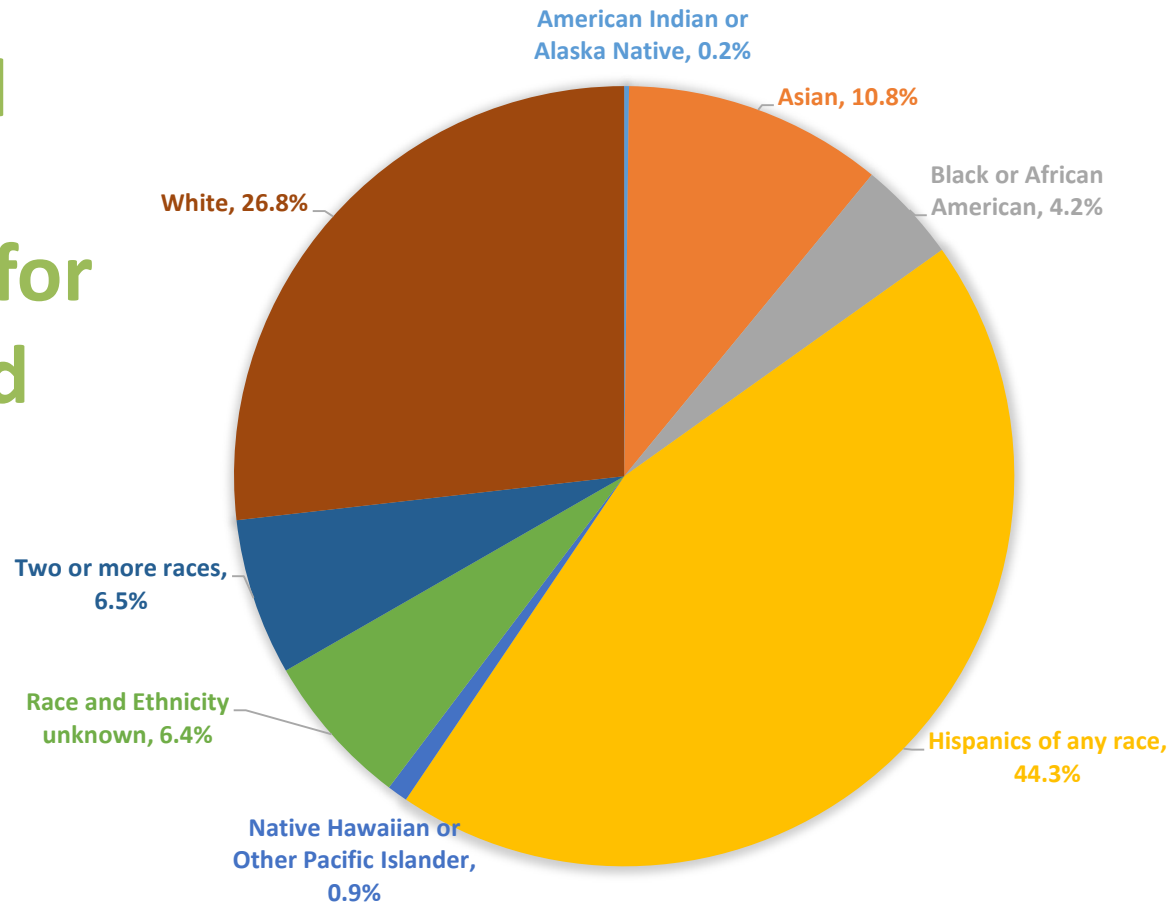
Academic Years	Students	Gender		College of Southern Nevada		
		Females	Males	No. Courses	No. Credits	Value
CTE College Credit 2015-2016	628	368	260	1,120	3,779	\$332,552.00
CTE College Credit 2016-2017	880	464	416	1,674	5,665	\$518,347.50
Totals	1,508	832	676	2,794	9,444	\$850,899.50

Students: CTE students that applied to CTE College Credit, met the program eligibility requirements, and were transcribed CSN college credit.



Demographics

Race and
Ethnicity
Average for
FY 16 and
FY 17



Challenges

- We need more CTE Articulated College Credit students to matriculate to CSN by not only applying for the CTE credit but enrolling at CSN (38.9% FY 16, 20.1% FY 17).
- Recognizing the benefits of the current CTE Articulated College Credit program, we are challenged with delivering more direct dual credit CTE programming, similar to JumpStart, under the current statewide framework.

Solutions

- Continued exploration of the assignment of letter grades for CTE Articulated Credit versus S/U's. Not only would this encourage matriculation but it would help students meet prerequisite requirements for sequential courses.
- Continued collaborative discussions as to how best to deliver CTE dual credit programs.

Great Basin College

CTE Partnerships



CTE College Credit

Elko County School District

- CTE Elko County HS Programs
 - 7 High Schools in District
 - 2882 duplicated enrollments in 2016
 - 29 CTE pathway/programs offered
 - GBC Articulates 14 of the 29 programs 48%
 - State wide Articulation agreements
 - Dual Enrollment



CTE College Credit

High School Articulation Agreements

- 75 Total High School CTE Programs offered in NV
- GBC Articulations 25 of the total offerings or 33%
- 45% of the students entering GBC CTE programs are High School students
- In 2017 HS graduates saved \$78,375 in tuition
 - 2016 - \$54,136
 - 2015 - \$73,260



CTE College Credit

Benefits

- Recruiting for CTE programs
- Coordinate tours of CTE programs on campus
- Coordinate articulation agreements between HS instructors and College faculty
- Organize professional development opportunities for HS CTE teachers
- Provide career exploration



Partnerships

Mining Industry

- Maintenance Training Cooperative (MTC)
 - Scholarships for HS students (\$5,000)
 - Paid Internship – up to \$25,000
 - 96% graduate placement rate
 - 64 Scholarships 2017-18 for \$320,000
 - Recruiting HS students
 - 42 HS visits so far this year



GBC CTE Programs

Welding, Diesel, Electrical, Millwright, Instrumentation

- Support local industries
- Accelerated Programs
 - AAS Degree or Certificate of Achievement in 36 weeks
 - About half of students receive a MTC Scholarship
 - Of the MTC recipients 48% are recent High School graduates
 - Average starting salary \$60,000 to \$67,000



GBC Program Articulations

Business Marketing Education

Education, Hospitality & Human Services

Agriculture & Natural Resources

Health Science & Public Safety

Information & Media Technologies

Skilled & Technical Trades



Challenges

CTE HS Program Offerings

Remedial Course Work

Rural CTE needs

Teachers

Equipment

HS and College Facilities



Truckee Meadows Community College Washoe County School District

CTE Programs Overview
Dual Credit (Jump Start)
CTE College Credit
Feb. 15, 2018





Definitions

Dual Enrollment (Jump Start)

- College classes offered to high school students
 - Dual credit means students earn college credit while simultaneously earning high school credit
 - At a school or at the college

CTE College Credit

- Awards free college credit for approved high school CTE programs taught by high school teachers
- Sequence of high school elective classes

Program Examples

Accounting and Finance

Agricultural Mechanics Technology

Animation

Automotive

Baking and Pastry

Biomedical

Computer Science

Construction Technology

Culinary Arts

Drafting and Design

Early Childhood Education

Emergency Medical Technician

Energy Technologies

English

Foods and Nutrition

Graphic Design

Human Development

IT Service & Support

Manufacturing Technologies

Math

Metalworking

Ornamental Horticulture/Greenhouse

Sports Medicine

Theater Technology

Veterinary Science

Video Production

Web Design & Development

Welding Technology

High School Dual Credit

Overview

- Jump Start Cohort Classes
 - dual credit have reserved enrollment for a specific group of students
- Jump Start to TMCC (J2TMCC)
 - individual students to take college courses to get a head start to college or all of the above

High School Dual Credit

Summer 2017

- 162 students with 192 enrollments
- Overall academic performance
 - Pass Rate: 96%
 - Average GPA: 3.3

High School Dual Credit

Fall 2017

- 427 students with 501 enrollments
- Overall academic performance :
 - Pass Rate: 93%
 - Average GPA: 3.0

Dual Credit High School Partnerships

Partnerships

- TMCC High School
- TMCC Tech Pathways
- ACE Charter High School
- Other Agreements

New This Year

- Advanced Manufacturing in the High Schools
 - Hug and Sparks High Schools



TMCC CTE College Credit

TMCC CTE Agreements

- 35 High School CTE Programs Statewide

State Goals

- By 2020 Nevada will have 11,000 CTE completers
- By 2020 WCSD will have 1,550 CTE completers

CTE College Credit Students

High School	Students
Academy for Career Education High School (ACE), Reno	11
Academy of Arts, Careers and Technology (AACT), Reno	53
Damonte Ranch High School, Reno	0
Earl Wooster High School, Reno	0
Reed High School, Sparks	31
Galena High School, Reno	0
North Valleys High School, Reno	1
Hug High School, Reno	11
Reno High School, Reno	72
McQueen High School, Reno	23
Spanish Springs High School, Sparks	141
Sparks High School, Sparks	1
Incline High School, Incline Village	1



TMCC CTE College Credit

2015-2016

- 156 students awarded credit
- 1,111 credits
- 48% male; 52% female
- Tuition value: \$103,878

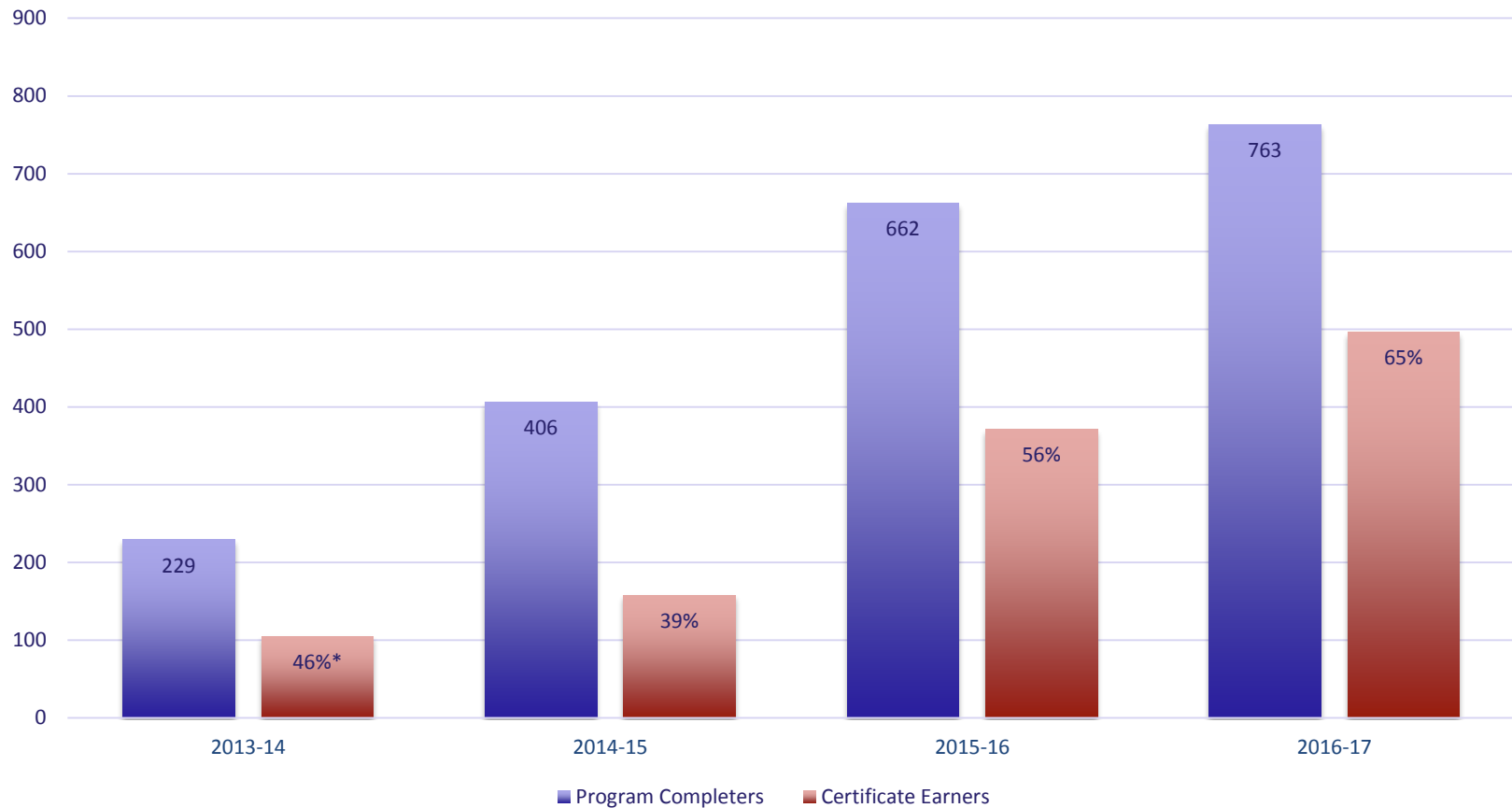
2016-2017

- 350 students awarded credit
- 2,492 credits
- 44% male; 56% female
- Tuition value: \$252,938

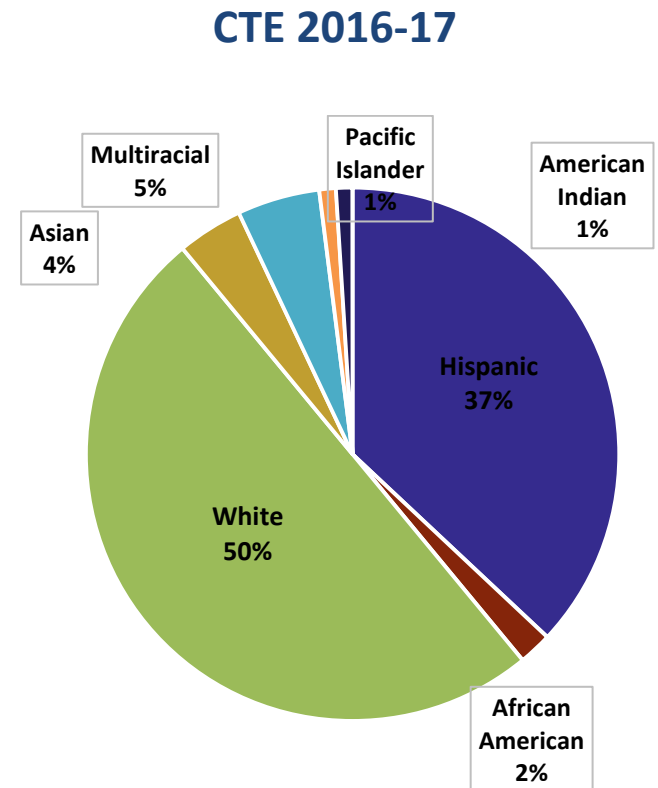
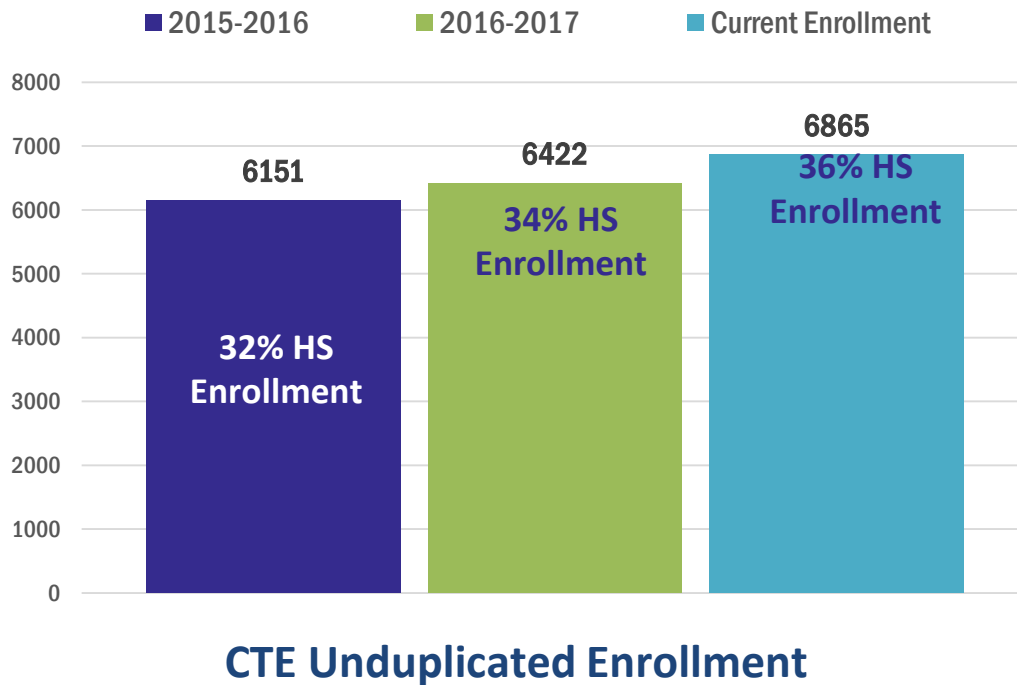


FY16 to FY17 Increases (WCSD)

Program Completers & Certificates Earned

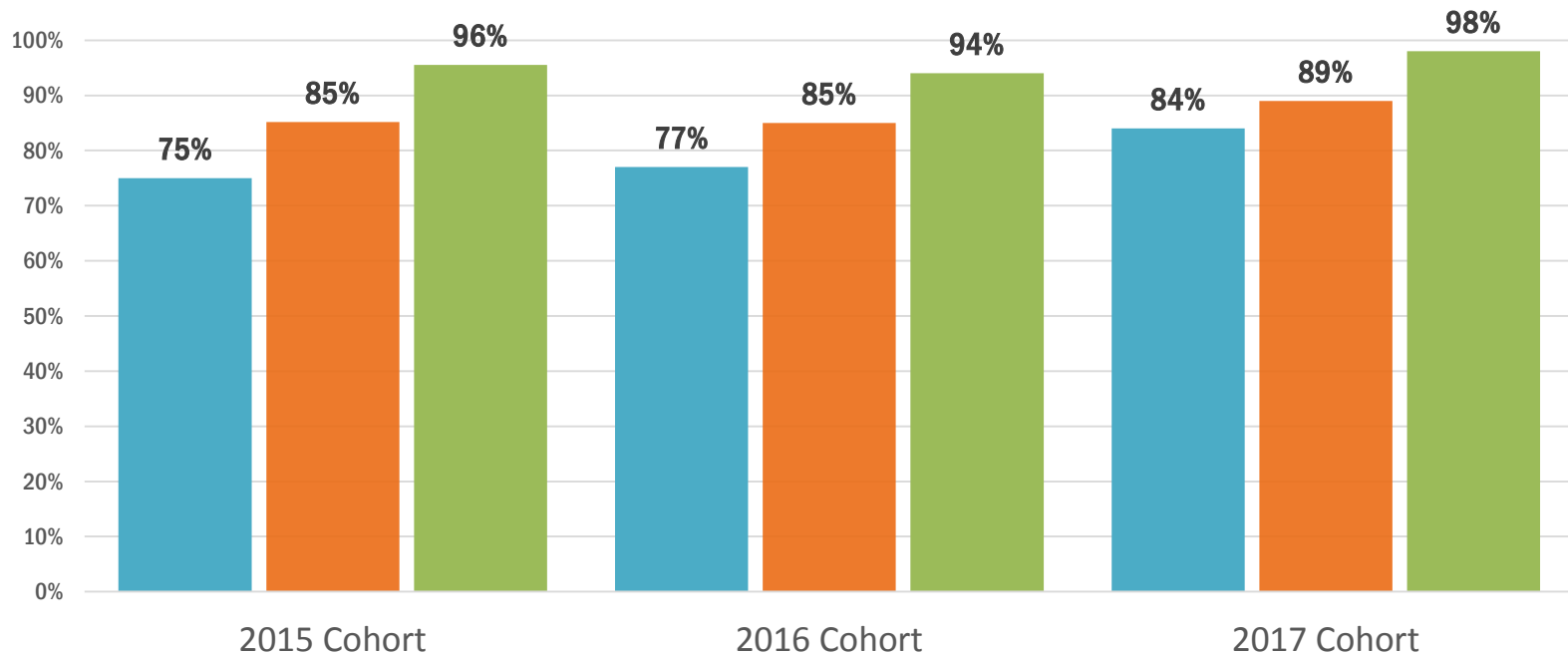


WCSD Enrollment



WCSD Grad Rates

■ District ■ Concentrators ■ Completers



District Cohort	4624	4708	4662
Concentrators	465	451	467
Completers	315	540	548



Challenges to Scaling Up

Challenges

- Access for all students
 - Transportation
 - Registration fees
 - Communication of opportunities for students
- Program development funding
 - Thanks for CTE NSHE formula adjustment
- College and Career Readiness Grant timing
- Facility space (TMCC and WCSD)

Western Nevada College

A large, faint, circular seal of the Nevada System of Higher Education is centered in the background. The seal features the text "NEVADA SYSTEM OF HIGHER EDUCATION" around the perimeter and a central illustration of a landscape with a river, a bridge, and a building.

Career and Technical Education
Legislative Committee on Education

Career Education

Preparing professionals and technicians for Nevada's current and emerging workforce

- Career and Technical Education & Allied Health
 - 14 Academic Career Areas
 - 48 Certificate and Degree Options
 - Licensing and Certification Preparation
 - Certificates of Achievement (30 credit hours)
 - AAS
 - BAS Construction

Dual Credit & Industry Credentials

Credentials with Labor Market Value

Advanced Manufacturing

- Automated Systems (Manufacturing Technician 1, KUKA, Fanuc)
- Mechatronics (Siemens International Certifications)

Computer Information Technology

- Networking (CISCO and Microsoft Networking)
- Cybersecurity (EC Council for Cybersecurity)

Construction Management

(National Center for Construction Education and Research)

Automotive (Automotive Service Excellence; iCar)

Machine Tool (National Institute for Metalworking Skills)

Welding (American Welding Society)

Allied Health

- Certified Nursing Assistant (NV licensing)
- Emergency Medical Services (National Registry)
- Laboratory Technician Phlebotomy (NV licensing)

WNC Co-locating at High Schools

Rural HS Students Least Likely to go to College

“The high school grads least likely in America to go to college? Rural ones” by Jon Marcus and Matt Krupnick, The Hechinger Report – Sept. 27, 2017

Silver Stage High School

- Advanced Manufacturing (MT1)

Yerington and Smith Valley High Schools

- Construction Management (NCCER)

CTE College Credit Collaboration

WNC Growing Program

- 25 Articulation Agreements
- 112 Credit Hours Awarded 2017-2018
 - \$10, 930 in tuition saved

Additional Collaborations

High School Program of Study 4th Year

- Dual Credit as Program of Study

Work Based Learning

- Internship and Apprenticeships
 - Minimum age often 18 years
 - Summer transition from HS to College

Preparing Workforce Together

Aligning Curriculum and Industry Needs

- High School to Post-secondary (scaffold curriculum)
- Approximately 60% NV jobs require some post-secondary

Building Industry Partners

- Industry Advisory Boards
- Professional Workshops, Externships

Challenges

Messaging

HS to Community College Advancing CTE pathway

- Above entry level job/career planning/family sustaining wages
- Great career choices

Funding *thank you for increase in CTE weighting*

- Equipment to prepare for workforce
- Small class size (instruction and safety)
- Professional Development

Student Success

- Financial support
 - Promise Scholarship (for young students) *thank you again*
 - Nontraditional Students and Underserved
- Underemployed, under-skilled (reduce barriers to entry)