

OFFICE OF Curriculum & Instructional Design New CTE Pathways and Programs

WDC Sector and Strategies Meeting

Presenter Name, Troy Sueoka - CTE Educational Specialist





SECTION

Why the new CTE Pathways & Programs?





Why the new CTE Pathways and Programs? Course Type Number of Courses Course Type Courses with Standard Courses

Courses with Standards

Course Type	Number of Courses	Courses with Standards
Core	6	6
Cluster	34	26
Concentration	37	11



AGRICULTURAL MECHANICS TECHNOLOGY



- Program of Study -

Career Cluster: Agriculture Food and Natural Resources

Career Pathway: Power, Structural and Technical Systems

This Academic Plan is based upon the state requirements needed for an Advanced Diploma. Academic course names may vary among school districts.

Grade	1 st Course	2 nd Course	3 rd Course	4 th Course	5 th Course	6 th Course (CTE)
9 th Grade	English I	Algebra I	Biology	Health / Computer Literacy	Physical Education	Agricultural Mechanics Technology I
10 th Grade	English II	Geometry	Chemistry or Geoscience	World History	Physical Education	Agricultural Mechanics Technology II
11 th Grade	English III	Algebra II	Science Course or Elective ¹	US History	Foreign Language ² or Elective ¹	Agricultural Mechanics Technology III ³
12 th Grade	English IV	Senior Level Math Course	Elective ¹	US Government	Foreign Language ² or Elective ¹	Agricultural Mechanics Technology Advanced Studies

¹ Electives may include arts and humanities courses or other career and technical education courses that relate to the program of study. ² Tereign Language courses are recommended if a student is planning on entering a university. (See individual university admission policies) ³ OTE Assessments will be administered during the completion level OTE course.

Career and Technical Student Organiz	ations Work-Based Learning	CTE Assessments		
FFA	Job Shadowing / Internship / Work Experience / Career Days / Career Fairs / Field Trips / Guest Speakers / SAE	 End of Program Technical Assessment for Agricultural Mechanics Technology Workplace Readiness Skills Assessment (for Employability Skills Standards) 		
Postsecondary Options	State Articulation Agreements for CTE College Credit			

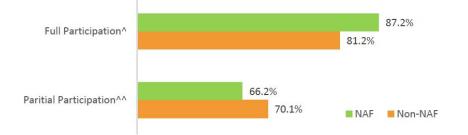
 Nevada Program of Study Alignment Sheet

College of Southern Nevada / Great Basin Secondarv Program Requirements



Why the new CTE Pathways and Programs? Exhibit 4. NAF and Non-NAF Students' Graduation Rate by Program Participation Through Grade 12

 National Academy Foundation (NAF)



^A The difference is statistically significant between the NAF and non-NAF groups (X² (1, N = 11,016) = 67.72, p < .001). ^{AA} The difference is statistically significant between the NAF and non-NAF groups (X² (1, N = 7,959) = 12.167, p<.001).



Governor and State Initiatives







Why the new CTE Pathways and

Programs?

2030 Promise Plan

a parental engagement design.

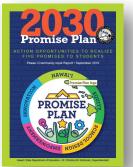
 Expand current Career and Technical Education (CTE) efforts to include high-demand specialized careers unique to Hawai'i.

Create a data informed appropriate bin system fr

Industry Partnerships

Our public education system is the hub of innovation for business and industry in Hawai'i. We will have a statewide network of partners that will support all schools and complex in their efforts to provide students with innovative

- · Introduce models of entrepreneurship as a career choice through mentorship from successful business leaders with just-in-time skills transmission in designing startup businesses, commercialism and community leadership.
- ALICE families an acronym for Asset Limited, Income, Constrained, Employed – have income above the Federal Poverty Level (FPL), but not high enough to afford a basic household budget that includes housing, child care, food, transportation and health care.



179.698

students enrolled

of students are English learners

of students are eligible for Free or Reduced Lunch

of students are

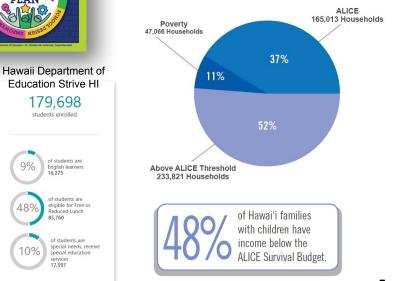
services 17,591

special education

16 275

HOUSEHOLD INCOME. HAWAI'I. 2015

Household Survival Budget in Hawai'i: \$28,128 for a single adult \$72,336 for a family of four





CTE

AGRICULTURAL MECHANICS TECHNOLOGY

Wevada Ready:

- Program of Study -

Career Cluster: Agriculture Food and Natural Resources

Career Pathway: Power, Structural and Technical Systems

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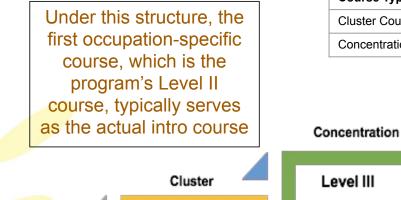
Career and Technical Student Organizations	Work-Based Learning	CTE Assessments
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1	Postsecondary Options	State Articulation Agreements for CTE College Credit
	College of Southern Nevada / Great Basin	Secondarv Program Requirements



Typical CTE Program of Study Sequence

Typically, One Generic Course Reflective of a Broader Pathway and Only 2 Occupation-Speci fic Courses



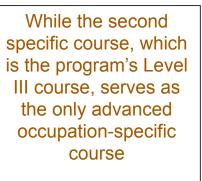
Level II

Core

Level I

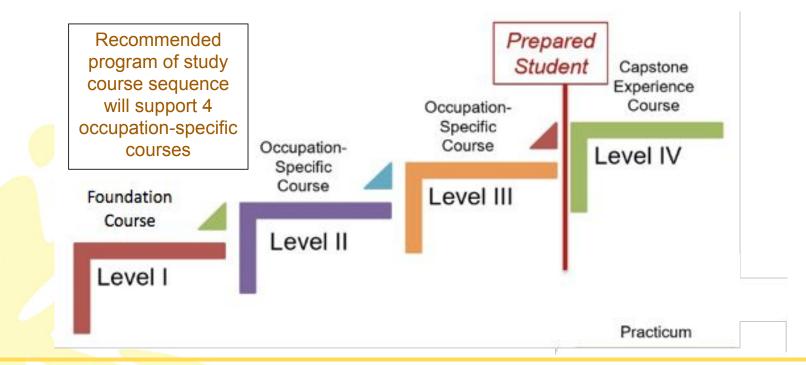
Hawaii DOE School Year 18-19

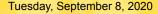
Course Type	Number of Students
Cluster Courses	10,444
Concentration Courses	3,020





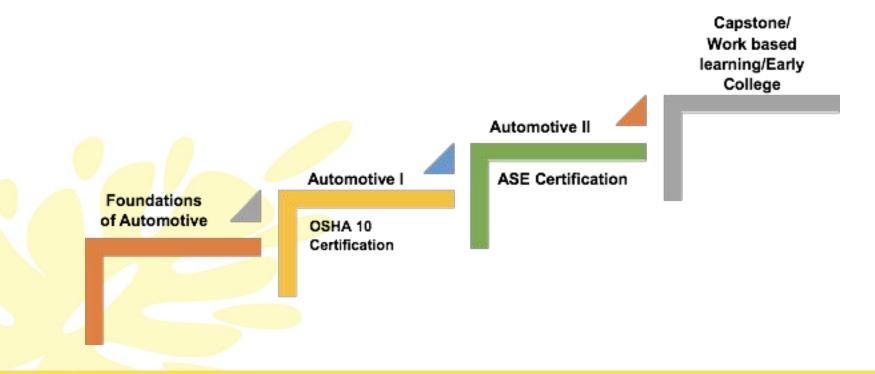
Recommended CTE Program of Study Sequence







Example of Proposed Program of Study Sequence with Industry Recognized Credential





6 CTE PATHWAYS TO 13 CTE PATHWAYS

6-13 CTE Pathways

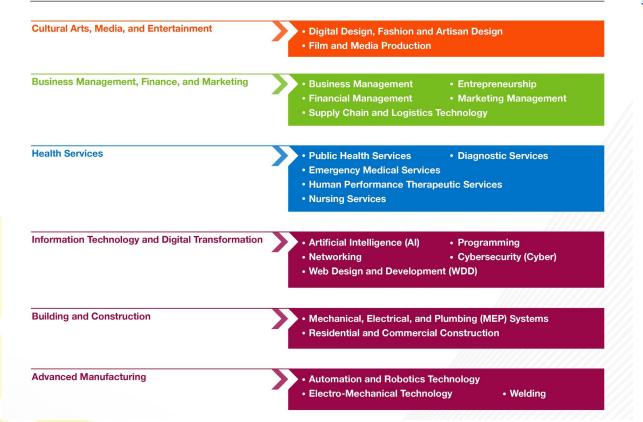
Arts & Communication		Cultural Arts, Media, and Entertainment
Business		Business Management, Finance, and Marketing
Health Services		Health Services
Industrial and Engineering Technology		Information Technology and Digital Transformation Building and Construction Advanced Manufacturing Energy Architectural Design and Engineering Technology Transportation Services
Natural Resources	>>>>>	Agriculture, Food, and Natural Resources
Public and Human Services	>>>>>	Education Hospitality, Tourism, and Recreation Law and Public Safety



DRAFT VERSION 1.3

13 CTE CAREER PATHWAYS AND PROGRAMS

Draft CTE Pathways and Programs



OFFICE OF Curriculum & Instructional Design

Energy	Alternative Fuels Technology
	Power Grid Technology
	Renewable Energies Technology
Architectural Design and Engineering Technology	Architectural Design (AD) Engineering
Transportation Services	Automotive Maintenance and Light Repair (MLR)
	Automotive Collision Repair
	Aviation Maintenance Technology
	Marine Maintenance Technology
Agriculture, Food, and Natural Resources	Animal Systems, Food Systems
	Natural Resources Business
	Natural Resources Management
Education	Learning Support Professionals (LSP)
-	Teaching As a Profession (TAP)
Hospitality, Tourism, and Recreation	Culinary Arts
	Sustainable Hospitality and Tourism Management
Law and Public Safety	Law Enforcement Services
Law and Public Safety	
Law and Public Salety	Fire and Emergency Services (FES)



		CTE POS: Course Sequence			
HI Career Pathway	CTE Program of Study (POS)	Level I	Level II	Level III	Level IV
Education	Learning Support Professionals (LSP)	Foundations of Education	LSP 1	LSP 2	LSP WBL
Education	Teaching As a Profession (TAP)	Foundations of Education	TAP 1	TAP 2	TAP WBL

Law and Public Safety	Law Enforcement Services	Foundations of Law and Public Safety	LES 1	LES 2	LES 3 and/or LES: WBL
Law and Public Safety	Fire and Emergency Services (FES)	Foundations of FES	FES 1	FES 2	FES 3* <u>and/or</u> FES: WBL
Law and Public Safety	Pre-Law	Foundations of Law and Public Safety	Pre-Law 1	Pre-Law 2	Pre-Law 3 <u>and/or</u> Pre-Law WBL



SECTION 02 Timeline



DRAFT VERSION 1.8

Draft Timeline





SUMMER 2020	SY 2020-21	SY 2021-22	SY 2022-23	SY 2023-24
ROLLOUT: • Law and Public Safety • Education 1. New ACCN for course registration guides 2. Teacher Workgroup 3. PAC Workgroup	NEW COURSES BEGIN: • Law and Public Safety • Education ROLLOUT: • Engineering and Architecture • Health Services	NEW COURSES BEGIN: • Engineering and Architecture • Health Services • Building and Construction • Transportation Services ROLLOUT:	NEW COURSES BEGIN: • Advanced Manufacturing • Energy • Information Technology • Agriculture, Food, and Natural Resources • Business	NEW COURSES BEGIN: • Hospitality, Tourism, and Recreation • Cultural Arts, Media, and Entertainment
4. Teacher PD	 Health Services Building and Construction Transportation Services <i>1. New ACCN for course registration guides</i> <i>2. Teacher Workgroup</i> <i>3. PAC Workgroup</i> <i>4. Teacher PD</i> 	 Advanced Manufacturing Energy Information Technology Agriculture, Food, and Natural Resources Business <i>New ACCN for course</i> registration guides <i>Teacher Workgroup</i> <i>PAC Workgroup</i> <i>Teacher PD</i> 	 ROLLOUT: Hospitality, Tourism, and Recreation Cultural Arts, Media, and Entertainment New ACCN for course registration guides Teacher Workgroup PAC Workgroup Teacher PD 	





15

Sample TAP Program of Study Alignment Sheet

		TEACHI PRO	0		
		9th Grade	10th Grade	11th Grade	12th Grade
	Required CTE course	Foundations of Teaching as a Profession (1 cr)	Teaching as a Profession 1 (1 cr)	Teaching as a Profession 2 (1 cr)	Teaching as a Profession 3 (1 cr) and/or Teaching as a Profession Work Based Learning
	Course 1	English 1/ Language Arts I (1 cr)	English 2/ Language Arts II (1 cr)	Expository Writing (.5 cr) + Common Core aligned language arts elective or proficiency based equivalents with Emphasis on Writing (.5 cr)	Common Core aligned Language Arts electives or proficiency based equivalents (1 cr)
	Course 2	World History and Culture (1 cr)	U.S. History and Government (1cr)	Modern History of Hawaii (.5 cr) & Participation in a Democracy (.5 cr)	Psychology (0.5) & Social Studies elective (e.g, Sociology/ Anthropology) (0.5 cr)
	Course 3	Algebra 1 (1 cr)	Geometry (1 cr)	Mathematics basic elective-Algebra 2 (1 cr)	Mathematics elective - Recommend a 4th year of Math (1 cr)
	Course 4	Science basic elective (e.g, physical science) (1 cr)	Biology 1 (1 cr)	Science elective (1 cr)	Science elective - Recommend a 4th year of science - Human Physiology (1 cr)
	Course 5	1) PE Lifetime Fitness (.5 cr) + PE Electve (.5 cr) 2) Health Today and Tomorrow (.5 cr) 3) Personal Transition Plan (.5 cr)			
	Course 6	Specialized Elective (e.g., World Languages, Fine Arts)			

EDUCATION

NT OF ED

Career and Technical Student Organizations	Work-Based Learning	Industry Recognized Certifications	
FCCLA	WBL awareness and exploration activities embedded in each course: guest speakers, informational interviews, and workplace visit, exchange with professionals and job shadowing.	Link Here	

High Wage - High Skill - High Demand Careers

Preschool teachers, Elementary School Teachers, Secondary Teachers, College/University Lecturers, Professional Coaches, Early Childhood Teachers, Corporate Trainers and Educators, Librarian.

Explore more careers at https://uhcc.hawaii.edu/career_explorer/

Post Secondary 2 Year Options							
LEEWARD CC AAT Program	Honolulu CC Early Childhood Education	Kapiolani CC Liberal Arts	Hawaii CC Early Childhood Education	Kauai CC Early Childhood Education	Maui College Early Childhood Education		
Associate in Science in Teaching Certificate of Competence, Alternative Certification in Teaching Certificate of Competence, Special/Inclusive Education Certificate of Competence, Special Education II Advanced Professional Certificate, Special Education - Mild/Moderate PK-12	Associate in Science, Iniant/Toddler Associate in Science, Preschool Certificate of Achievement, Preschool Certificate of Competence, Child Development Associate (CDA) Certificate of Competence, Early Childhood Education	- Associate in Arts: Concentration in Elementary Education; Concentration in Secondary Education	 Associate in Science Certificate of Achievement Certificate of Competence 	 Associate in Science Certificate of Achievement Certificate of Competence 	 Associate in Science Certificate of Achievement Certificate of Competence 		

Post Secondary 4 Year Options						
University of Hawaii at Manoa College of Education	University of Hawaii West Oahu	University of Hawaii at Hilo				
BEd; Early Childhood & SPED BEd Dual Prep; Bernentary & Early Childhood BEd Bornentary Education BEd Secondary Education PB Certificate in Socondary Education BS (RS): Health and PE. Teacher MEd Cardoum Studies PK-3 School Level MEd Early Childhood Education	BA Early Childhood (Social Science degree with Early Childhood focus) BEd in Benetary Education (K6) BEd in Secondary Education Additional 15 credits for Special Education	 Certificate in Education Studies Master of Arts in Teaching Kahuawailan Awaiian and Indigenous Teacher Education Program 				



SECTION 03 Feedback





Feedback

- What are some immediate questions you may have?
- What are things we should consider when rolling out new pathways?
- What should schools consider when choosing a Pathway or Program for their school?
- What are other implications that we need to consider?
- Pathway advisory council recommendations?