WHS

Career and Technical Education

Frameworks

- Each CTE Class must have an approved framework.
- Each CTE Instructor must have certification (v code) that aligns with the course/framework identification (cip code).
- Frameworks must have a leadership component and align with both Washington State Core Standards and 21st Century Skills.

CERTIFICATION NAME		OCCUPATIONAL EXPERIENCE	CIP CODE	CIP NAME
STEM Technology	8760 STEM (V141000)	Experience in one or more of the following: Science, Technology, Engineering, Mathematics *Experience may include teaching in any of the above for 6,000 hours. *Districts must ensure that teachers accessing the V141000 Certificate Code are prepared with the proper technical and safety preparation necessary to provide safe and competent instruction.	030198	Sustainable Design and Technology
			110201	Computer Programming
			110701	Introduction to Computer Science
			140102	Pre-Engineering Technologies
			140501	Bioengineering and Biomedical Engineering
			141001	Electronics, Engineering and Design
			141801	Introduction to Materials Engineering
			144201	Mechatronics and Industrial Animation
			149991	Engineering Design 1
			149992	Engineering Design 2
			149993	Engineering Design 3
			149994	Introduction to Science Research Engineering
			149995	Introduction to Engineering Technology
			149996	Introduction to Computer Integrated Manufacturing
			149997	Digital Electronics
			149998	Introduction to Aerospace Engineering
			150201	Introduction to Civil Engineering and Architecture
			150406	Robotics Foundations
			150801	Aeronautical and Aerospace Engineering Technology
			151201	Computer Engineering Technology
			151301	Drafting and Design Technology General
			151302	CAD/CADD Drafting and /or Design Technology
			151602	Nanotechnology
			210198	Technology Foundations
			279991	Technical Mathematics for the Trades
			400891	Principles of Technology Applied
			401099	Material Science Technology Applied

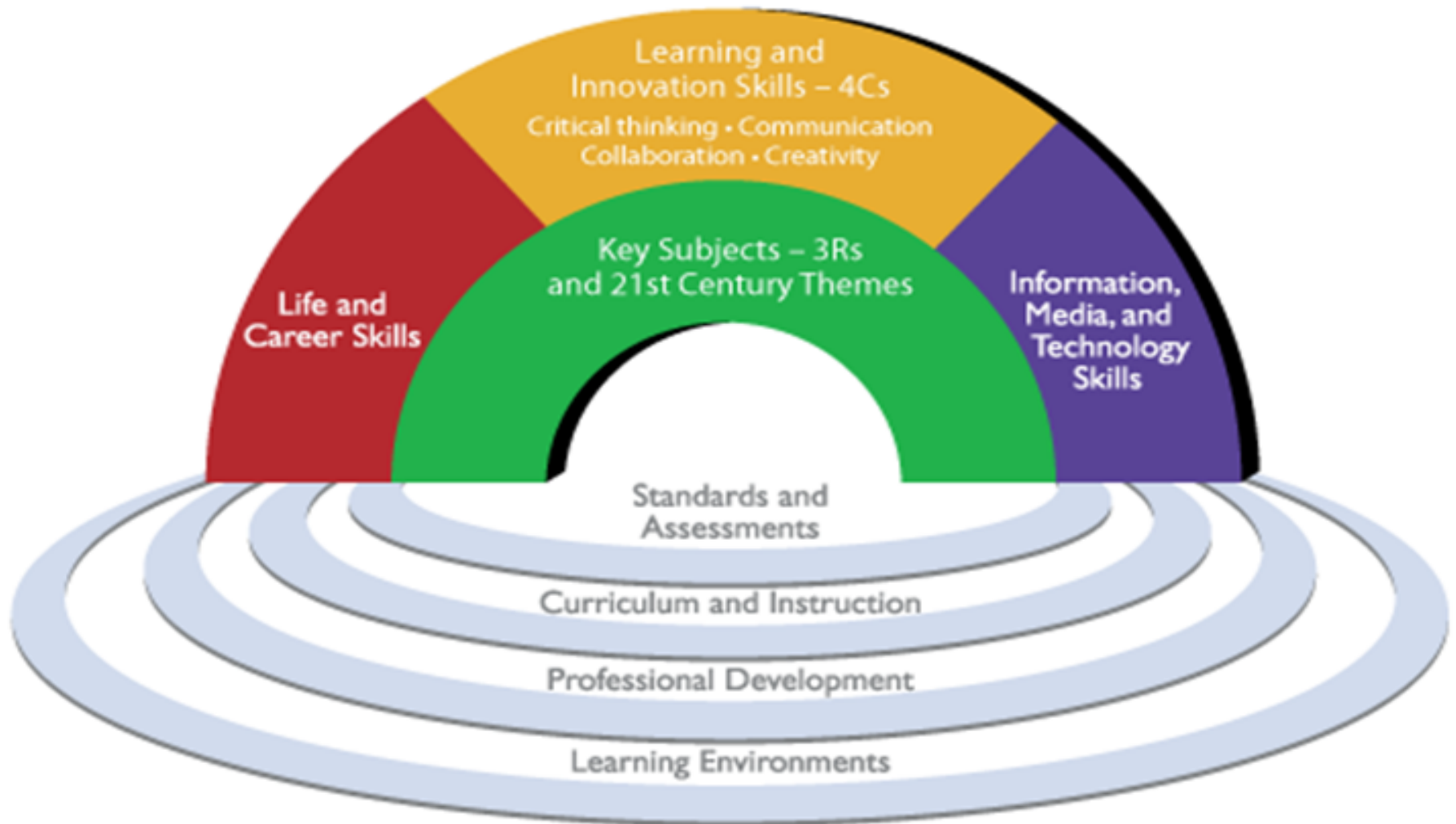| 21st Century Skills		
LEARNING & INNOVATION	**INFORMATION, MEDIA & TECHNOLOGY SKILLS**	**LIFE & CAREER SKILLS**
Creativity and Innovation ☒Think Creatively ☒Work Creatively with Others ☒Implement Innovations **Critical Thinking and Problem Solving** ☒Reason Effectively ☒Use Systems Thinking ☒Make Judgments and Decisions ☒Solve Problems **Communication and Collaboration** ☒Communicate Clearly ☒Collaborate with Others	**Information Literacy** ☒Access and /evaluate Information ☒Use and Manage Information **Media Literacy** ☒Analyze Media ☒Create Media Products **Information, Communications and Technology (ICT Literacy)** ☒Apply Technology Effectively	**Flexibility and Adaptability** ☒Adapt to Change ☒Be Flexible **Initiative and Self-Direction** ☒Manage Goals and Time ☒Work Independently ☒Be Self-Directed Learners **Social and Cross-Cultural** ☒Interact Effectively with Others ☒Work Effectively in Diverse Teams **Productivity and Accountability** ☒Manage Projects ☒Produce Results **Leadership and Responsibility** ☒Guide and Lead Others ☒Be Responsible to Others

21st Century Student Outcomes and Support Systems

This **Framework for 21st Century Learning** was developed with input from teachers, education experts, and business leaders to define and illustrate the skills and knowledge students need to succeed in work, life and citizenship, as well as the support systems necessary for 21st century learning outcomes

CTE PATHWAYS @ WHS

Computer Sciences

- Web Design (1.0 or .5)
- Intro to Computer Science (.5)

Vocational Sciences

- Beg. Horticulture Science (.5)
- Adv. Horticulture Science (.5)
- Floral Design (1.0)
- Floral Shop Management (1.0 or .5)

Family and Consumer Sciences

- Creative Chef (1.0)
- Ethnic Cooking (1.0)
- Independent Living (1.0)
- Early Childhood Education (1.0)
- Office Skills and Communication (.5 or 1.0)

Business Marketing

- Digital Arts (.5 or 1.0)
- Financial Fitness (.5 or 1.0)
- Marketing (.5 or 1.0)
- Publishing (1.0)
- Retail Operations (.5 or 1.0)
- Entrepreneurship (.5 or 1.0)
- Computer Applications (.5)

Metal Fabrication and Auto Tech

- Adv. Metal Fabrication Tech (1.0 or .5)
- Automotive Maintenance (1.0 or .5)
- Beg. Metal Fabrication Tech (1.0 or .5)
- Maritime Trades (.5)

Cascadia Technical Academy (11-12th Grade)

Health Occupations Sciences

- AP Biology
- Medical Sciences 1 and 2 (1.0)
- Human Anatomy & Physiology (1.0

*PPR= Personalized Pathway Requirement: Locally determined courses that lead to a specific post-high school career outcome chosen by the student, based on the student's interest and High School and Beyond Plan. Students interested in a CTE Pathway will be required to take 2.0 credits or more in the above categories. 1.0 of those 2.0 credits should be taken within the same CTE concentration to be considered a true Personalized Pathway.

Cascadia Technical Academy

http://cascadiatechnicalacademy.org/

- Applied Medical Sciences
- Automotive Technology
- Aviation Technology
- Construction Technology
- Cosmetology
- Criminal Justice
- Culinary, Baking and Pastry Arts
- Dental
- Diesel Technology
- Fashion Merchandizing & Management
- Fire Science
- Homeland Security
- Information Technology Systems, Service and Support (ITS3)
- Legal/Medical Office Applications
- Pre-Engineering
- Design Technology
- Travel and Hotel Management

1:2:7

requiring technical skills and training at the credential or Associates Degree level.

Where we are heading...

- ## Worksite Learning
  - A partnership with **P**artners **I**n **C**areers
  - Summer Internship (2018)
  - New WHS Course (2018-19)

- ## Local Advisory
  - A partnership between our schools, businesses, community and the STEM Network.
  - What skills/tools do our students need to be both college and career ready?
  - Expand our cte program by creating new courses that are both relevant and support fields that are in demand.

- ## Pathways
  - A sense of purpose for our all of our students.
  - Expanded to WMS.