

The Role of Career Clusters/Pathways



CCTI

College and Career Transitions Initiative



Transitions – Why Critical Today

For most Americans, education and training through and beyond high school is now a necessary condition (not just the most advantageous or desirable route) for developing skills required by most well-paying jobs.

Two Major Initiatives Initiated
by OVAE and Developed by:

Secondary and Postsecondary Education and Employers

- # Career Clusters
- # CCTI/Career Pathways

Career Clusters

“An organizing tool defining CTE using 16 broad clusters of occupations and over 70 pathways with validated standards that ensure opportunities for all students regardless of their career goals and interests.”

16 Career Clusters

1. Agriculture, Food, and Natural Resources
2. **Architecture and Construction**
3. Arts, Audio/Video Technology and Communications
4. Business, Management, and Administration
5. Educational Training
6. Finance
7. Government and Public Administration
8. Health Science

16 Career Clusters

9. Hospitality and Tourism
10. Human Services
11. Information Technology
12. Law, Public Safety and Security
- 13. Manufacturing**
14. Marketing, Sales, and Service
- 15. Science, Technology, Engineering and Mathematics**
- 16. Transportation, Distribution and Logistics**


Career Cluster Knowledge and Skills

1. Academic Foundations
2. Communications
3. Problem Solving/Critical Thinking
4. Systems
5. Information Technology/Applications
6. Safety, Health and Environmental
7. Leadership and Teamwork
8. Ethics and Legal Responsibilities
9. Employability and Career Development
10. Technical Skills

A Career Pathway is a coherent, articulated sequence of rigorous academic and career courses, commencing in the ninth grade and leading to an associate degree, and/or an industry-recognized certificate or licensure, and/or a baccalaureate degree and beyond.

A Career Pathway is developed, implemented, and maintained in partnership among secondary and postsecondary education, business, and employers. Career Pathways are available to all students, including adult learners, and are designed to lead to rewarding careers.

Example - Ivy Tech Career Pathway

		COLLEGE: Ivy Tech State College				CLUSTER: Health Sciences Career Cluster					
		HIGH SCHOOL(S): Brown County, Columbus East, Columbus North, Crothersville, Hauser, North Decatur, South Decatur, Seymour				PATHWAY: Therapeutic and Support Services					
						PROGRAM: Technical Certificate (Central Service Technician) Associate of Applied Science Degree (Surgical Technology)					
		GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES RECOMMENDED ELECTIVE COURSES OTHER ELECTIVE COURSES CAREER AND TECHNICAL EDUCATION COURSES				
ADULT LEARNER ENTRY POINTS	SECONDARY	9	English (English 9) (2)	Math (Algebra) (2)	Science (Biology) (2)	Social Studies (World History) (2)	Foreign Language (2)	Fine Arts (2)	Career Orientation (2)	Health (Intro to Health Careers) (2)	
		10	English (English 10) (2)	Math (Geometry) (2)	Science (Chemistry) (2)	Social Studies (US History) (2)	Foreign Language (2)	Computer App. (2)	PE (1)	Speech (1) ◆ Medical Terminology (HS=1, College=3)	
		11	English (English 11) (2)	Math (Algebra II) (2)	Science (Physics) (2)	Social Studies (AP Psych) (2)	Foreign Language (2)	Elective	◆ Health Careers (HS=2, College=3)	Health Careers (CST Program)(2)	
		In 11th grade, assess for college readiness by administering ASSET/COMPASS to all Health Careers Students; provide academic/career advising and apply appropriate enrichments									
		12	English (AP Comp/Lit) (2)	Math (Pre-Cal) (2)	Science (Medical Bio.) (2)	US Government(1) Economics (1)	Foreign Language (2)	Elective	Health Careers (CST Program)(2)	Health Careers (CST Program)(2)	
Upon completion of CST Health Careers Program, student is eligible to sit for CRCST exam and receive professional certification from IMCCMM. Administer COMPASS or ASSET to determine academic readiness and career skill preparedness; provide academic/career advising and additional preparation as needed or requested. Graduation Qualifying Examination (GQE) mandatory. HS exit exam for Indiana. (GQE measures 9th grade competencies.)											
ADULT LEARNER ENTRY POINTS	POSTSECONDARY	Year 1 1st Semester	◆◆ English Composition (3)	◆◆ Intermediate Algebra (3)	◆ Anatomy & Physiology I (3)	◆ Health Careers (3)	◆◆ Medical Terminology (3)				
		Year 1 2nd Semester	◆ Intro to Interpersonal Communications (3)		◆ Anatomy & Physiology II (3)	◆◆ Intro to Psychology (3)	Pharmacology (3)				
		Year 1 3rd Semester			General Microbiology (3)						
		Students are required to pass Health Occupation Aptitude Exam (HOAE). CPR certification required to continue into Year 2.									
		Year 2 1st Semester (1st 8 wks)				Medical Law & Ethics (3)	Fundamentals of Surgical Technology (4)		Applications of Surgical Technology (2)		
		Year 2 1st Semester (2nd 8 wks)					Surgical Procedures I (3)		Clinical Applications I (3)		
		Year 2 2nd Semester					Surgical Procedures II (6)		Clinical Applications II (6)		
		Year 2 3rd Semester					Surgical Procedures III (3) CST Certification Review (2)		Clinical Applications III (8)		
Upon Completion of Surgical Technology Program, Students are eligible to sit for the National Certification Examination to become a Certified Surgical Technologist (CST).											
		 Funded by the U. S. Department of Education (V051B020001)									
		Required Courses Recommended Elective Courses Career and Technical Education Courses Credit-Based Transition Programs (e.g. Dual/Concurrent Enrollment, Articulated Courses, 2+2) (◆=High School to Com. College) (◆◆=Com. College to 4-Yr Institution) (◆◆◆=Opportunity to test out) Mandatory Assessments, Advising, and Additional Preparation									