

Career and Technical Education (CTE) Career Clusters and Pathways

Developed by the U.S. Department of Education, there are 17 Career Clusters representing most occupations, which are divided into pathways. T.C. Williams High School offers courses that fit into 14 of these 17 Career Clusters.

This chart correlates the CTE courses at T.C. Williams High School with 14 of the 17 Career Clusters and pathways designated by the Office of Career and Technical Education at the Virginia Department of Education.

CAREER CLUSTER	CAREER PATHWAY	CTE COURSES
Architecture and Construction	Design/Pre-Construction	Advanced Architectural Drawing and Design II Television and Media Production I
Arts, Audio/Visual Technology and Communications	Journalism and Broadcasting	Dual Enrollment Television and Media Production II Television and Media Production III Commercial Photography I
	Visual Arts	Commercial Photography II Business Law
Business Management and Administration	Business Information Management	Business Management Dual Enrollment Advanced Early Childhood Education and Services II
Education and Training	Teaching and Training	Introduction to Early Childhood Education and Services I Dual Enrollment Teachers for Tomorrow Accounting I
Finance	Accounting	Advanced Accounting II AOF Economics and Personal Finance
	Business Finance	AOF Introduction to Financial Services Dual Enrollment AOF Introduction to Business and International Finance JROTC I
Government and Public Administration	National Security	JROTC II JROTC III JROTC IV Dual Enrollment Emergency Medical Technician I & II Dual Enrollment Introduction to Health and Medical Sciences Dual Enrollment Medical Laboratory Technology I Dual Enrollment Medical Terminology
Health Science	Therapeutic Services	Dual Enrollment Nurse Aide I Dual Enrollment Pharmacy Technician I Dual Enrollment Sports Medicine I Dual Enrollment Sterile Processing Surgical Technologist I Dual Enrollment Biotechnology Foundations in Health and Medical Sciences
	Diagnostic Services	Dual Enrollment Introduction to Health and Medical Sciences

		Dual Enrollment Medical Laboratory Technology I
		Dual Enrollment Medical Terminology
		Dual Enrollment Sports Medicine I
		Dual Enrollment Sterile Processing
		Dual Enrollment Biotechnology Foundations in Health and Medical Sciences
		Dual Enrollment Introduction to Health and Medical Sciences
	Health Informatics	Dual Enrollment Medical Laboratory Technology I
		Dual Enrollment Medical Terminology
		Dual Enrollment Pharmacy Technician I
		Dual Enrollment Biotechnology Foundations in Health and Medical Sciences
	Support Services	Dual Enrollment Medical Terminology
		Dual Enrollment Pharmacy Technician I
		Dual Enrollment Biotechnology Foundations in Health and Medical Sciences
	Biotechnology Research and Development	Dual Enrollment Medical Laboratory Technology I
		Dual Enrollment Sterile Processing
		Sports and Entertainment Marketing
Hospitality and Tourism	Recreation, Amusements and Attractions	Sports and Entertainment Management
		Introduction to Culinary Arts I
	Restaurants and Food and Beverage Services	Culinary Arts II
	Travel and Tourism	Hospitality and Tourism Marketing
Human Services	Early Childhood Development and Services	Child Development
	Personal Care Services	Cosmetology I
		Cosmetology II
Information and Technology	Network Systems	Dual Enrollment Networking Hardware Operations I and II
		Advanced Computer Information Systems II
	Information Support and Services	Cybersecurity Fundamentals
		Computer Information Systems I
		Graphic Design and Multimedia I
	Web and Digital Communications	Advanced Graphic Design and Multimedia II
		Cybersecurity Fundamentals
	Cybersecurity and Cloud Computing	Dual Enrollment Networking Hardware Operations I and II
		Electronics Systems I
		Electronics Systems II
Law, Public Safety, Corrections and Security	Law Enforcement Services	Criminal Justice I
		Criminal Justice II
		Marketing I
		Advanced Marketing II
Marketing	Marketing Management	Dual Enrollment Entrepreneurship: Business Ownership and Management
		Dual Enrollment Advanced Entrepreneurship
		Fashion Marketing I
	Merchandising	Advanced Fashion Marketing II
		Introduction to Fashion Careers

Science, Technology, Engineering and Mathematics

Engineering and Technology

- Advanced Engineering Drawing and Design II
- Aerospace Technology I
- Aerospace Technology II
- Biotechnology and Forensics Foundations
- Electronics Systems I
- Electronics Systems II
- Engineering Analysis and Applications II (Robotics)
- Engineering Explorations I
- Dual Enrollment Introduction to Engineering
- Sustainability and Renewable Technologies
- Technical Drawing and Design I
- Automotive Technology I
- Dual Enrollment Automotive Technology II
- Dual Enrollment Automotive Technology III

Transportation, Distribution and Logistics

Facility and Mobile Equipment Maintenance