

CTE Clusters, Endorsements and Pathways

Del Valle High School

2022-2023

** Courses may be eligible for college credit (requires successful completion of college requirements)

* Denotes advanced courses in the career pathway selected for an endorsement

Color Coded by TEA Career Cluster

Endorsement: Business & Industry

Program of Study: Accounting

	Year 1	Year 2	Year 3	Year 4
	Principles of Business Marketing & Finance (CT1431) (1 credit) Grades 9-10	Accounting 1** (CT6011) (1Credit) Grades 10-11	Accounting 2* (CT6012) (1 credit) Grades 11-12 Certification: QuickBooks Certified User	Practicum in Business Management (CT6063) (2 credits) Grade 12

Program of Study: Entrepreneurship

	Year 1	Year 2	Year 3	Year 4
	Principles of Business Marketing & Finance** (CT1431) (1 credit) Grades 9-10	Entrepreneurship 1 (CT1432) (1 credit) Grades 10-11 Certification: Entrepreneurship and Small Business (ESB)	Entrepreneurship 2 (Incubator) (CT1433) (1 credit) Grades 11-12	Practicum in Entrepreneurship (Accelerator) (CT6064) (2 credits) Grade 12

Endorsement: Business & Industry

Program of Study: Graphic Design

	Year 1	Year 2	Year 3	Year 4
	Introduction to Multimedia (CT2207) (1 Credit) Grades 9-12	Graphic Design and Illustration 1 w/lab** (CT2213) (2 credits) Grades 10-11 Certification: Adobe Certified Associate	Graphic Design and Illustration 2 w/lab* (CT2215) (2 credits) Grades 11-12 Certification: Adobe Certified Associate	Practicum in Graphic Design and Illustration (CT7714) (2 Credits) Grade 12 Certification: Adobe Certified Associate

Program of Study: Animation

	Year 1	Year 2	Year 3	Year 4
	Introduction to Multimedia (CT2207) (1 credit) Grades 9-10	Animation 1 w/ Lab (CT1712) (2 credits) Grades 10-11 Certification: Adobe Certified Associate	Animation 2 w/lab* (CT1715) (2 Credits) Grades 11-12 Certification: Adobe Certified Associate	Practicum in Animation* (CT1716) (2 credits) Grade 12 Certification: Toon Boom Associate and Adobe Maya

Program of Study: Audio & Video Technology and Video Production

	Year 1	Year 2	Year 3	Year 4
	Introduction to Multimedia (CT2207) (1 credit) Grades 9-10	Audio and Video Production 1 w/lab** (CT2108) (2 credits) Grades 10-11 Certification: Adobe Certified Associate	Audio and Video Production 2 w/lab* (CT2110) (2 credits) Grades 11-12 Certification: Adobe Certified Associate	Practicum/Audio and Video Production* (CT7712) (2 credits) Grade12 Certification: Apple Final Cut Pro X

Endorsement: Business and Industry				
Program of Study: Automotive Technology				
	Year 1	Year 2	Year 3	Year 4
	Automotive Basics (CT1803) (1 credit) Grades 9-10 Certification: OSHA 10 Hour General Industry & ASE Emissions	Automotive Technology I ** (CT1801) (2 credits) Grades 10-11	Automotive Technology II* (CT1802) (2 Credits) Grades 11-12	Practicum in Transportation Systems* (CT7205) (2 Credits) Grade 12 Certification: OSHA 30 Hour General Industry Multiple ASE Certifications
Endorsement: Public Service				
Program of Study: Legal Studies				
	Principles of Law, Public Safety, Corrections, and Security (CT3714) (1 Credit) Grades 9-10	Political Science I (CT8202) (1 Credit) Grades 9-10	Legal Research and Writing (CT2404) (1 Credit) Grades 10-12	Practicum in Law, Public Safety, Corrections, and Security* (CT2405) (2 Credits) Grade 12 Certification: Paralegal
Endorsement: Business and Industry				
Program of Study: Hospitality and Tourism				
	Principles of Hospitality and Tourism (CT2541) (1 Credit) Grades 9-10 Certification: Servsafe Food Handler	Travel and Tourism (CT8351) (1 Credit) Grades 10	Hospitality Services* (CT2548) (2 Credits) Grades 10-11 Certification: Certified Hospitality & Tourism Management Professional (AHLEI)	Practicum in Hospitality* (CT7033) (2 Credits) Grades 11-12 Certification: Servsafe Food Handler Servsafe Food Manager
Program of Study: Culinary Arts				
	Introduction to Culinary Arts** (CT2550) (1 Credit) Grades 9-10	Culinary Arts** (CT2542) (2 Credits) Grades 10-11 Certification: Servsafe Food Handlers	Advanced Culinary Arts* (CT 2543) (2 Credits) Grades 11-12 Certification: Servsafe Food Manager	Practicum in Culinary Arts (CT2544) (2 credits) Grade 12
Endorsement: Public Service				
Program of Study: Health Science				
	Principles of Health Science (CT7232) (1 Credit) Grades 9-10 Certification: CPR	Health Science* (CT7300) (1 Credit) Grades 10-11	Anatomy & Physiology For Health Science Pros* (CT3313) (1 Credit) Grades 11-12	Practicum in Health Science (Patient Care Technician)* CT7401 (1 Credit) AND CT7402 (1 Credit) Grade 12 Certification: Certified Patient Care Technician Clinical Medical Assistant

Program of Study: ACC- Pharmacy Technician				
	<p>Principles of Health Science (CT7232) (1 Credit) Grades 9-10</p> <p>Certification: CPR</p>	<p>Health Science* (CT7300) (1 Credit) Grades 10-11</p>	<p>Fall- College Transitions to Health Professionals(ACC)** (CT7317) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Medical Terminology (ACC)** (CT7231) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Spring- Dosage Calculations (ACC)** (CT8410) (1 Credit)</p> <p>AND</p> <p>Pharmacology (ACC)** (CT8411) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Anatomy & Physiology For Health Science Pros* (CT3313) (1 Credit) Grades 11-12</p>	<p>Fall- Community Pharmacy Practice (ACC)** (CT8414) (1 Credits) Grade 12</p> <p>AND</p> <p>Community Pharmacy Practice (ACC)** (CT8415) (1 Credit) Grade 12</p> <p>AND</p> <p>Spring- Pharmacy Drug Therapy and Treatment (CT8412) (1 Credit) Grade 12</p> <p>AND</p> <p>Pharmacy Technician Practicum (ACC)** (CT7331)</p> <p>Certification: Pharmacy Technician</p>

Program of Study: ACC- Emergency Medical Technician				
	Year 1	Year 2	Year 3	Year 4
	<p>Principles of Health Science (CT7232) (1 Credit) Grades 9-10</p> <p>Certification: CPR</p>	<p>Health Science* (CT7300) (1 Credit) Grades 10-11</p>	<p>Anatomy & Physiology For Health Science Pros* (CT3313) (1 Credit) Grades 11-12</p>	<p>Fall- College Transitions to Health Professionals(ACC)** (CT7317) (1 Credit) Grade 12</p> <p>AND</p> <p>Medical Terminology (ACC)** (CT7231) (1 Credit) Grade 12</p> <p>AND</p> <p>Spring- Emergency Medical Technician (ACC)** (CT8416) (2 Credits) Grade12</p> <p>Certification: EMT Technician</p>

Program of Study: ACC- Phlebotomy Technician

Year 1	Year 2	Year 3	Year 4
<p>Principles of Health Science (CT7232) (1 Credit) Grades 9-10</p> <p>Certification: CPR</p>	<p>Health Science* (CT7300) (1 Credit) Grades 10-11</p>	<p>Anatomy & Physiology For Health Science Pros* (CT3313) (1 Credit) Grades 11-12</p>	<p>Fall- College Transitions to Health Professionals(ACC)** (CT7317) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Medical Terminology (ACC)** (CT7231) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Spring-Phlebotomy (ACC)** (CT7313) (2 Credits) Grade 12</p> <p>AND</p> <p>Clinical Phlebotomy Practicum (ACC) ** (CT7330)</p> <p>Certification: Phlebotomy Technician</p>

**Endorsement: Public Service
Program of Study: Education & Training**

Year 1	Year 2	Year 3	Year 4
<p>Principles of Education and Training (CT2556) (1 Credit) Grades 9-10</p>	<p>Child Development (CT2557) (1 Credit) Grades 10-11</p>	<p>Instructional Practices in Education & Training** (CT8358) (2 Credits) Grades 11-12</p>	<p>Practicum in Education & Training** * (CT8359) (2 Credits) Grade 12</p> <p>Certification: Educational Aide (must be 18)</p>

**Endorsement: Public Service
Program of Study: Law, Public Safety, Corrections, and Security**

Year 1	Year 2	Year 3	Year 4
<p>Principles of Law, Public Safety, Corrections, and Security (CT3714) (1 Credit) Grades 9-10</p>	<p>Law Enforcement 1 (CT3310) (1 Credit) Grades 10-11</p>	<p>Law Enforcement 2** * (CT3314) (1 Credit) Grades 11-12</p> <p>AND</p> <p>Highly Recommended to Co-enroll in Criminal Investigation (CT3316) (1 Credit) Grades 11-12</p>	<p>Practicum/Internship in Law, Public Safety, Corrections, and Security* (CT3315) (2 Credits) Grade 12</p> <p>AND</p> <p>Forensic Science For Law Enforcement Pros* (CT3311) (1 Credit) Grades 11-12</p> <p>Certifications: Non-Commissioned Security Officer Level (must be 18) & 911 Communications Dispatch</p>

Endorsement: STEM
Program of Study: Engineering

	Year 1	Year 2	Year 3	Year 4
	Principles of Applied Engineering (CT6515) (1 Credit) Grades 9-10	Engineering Science (Principles of Engineering) (CT6504) (1 Credit) Grades 10-11	*Engineering Design and Problem Solving* ** (CT6513) (1 Credit) Grades 11-12 (UT Engineering Your World 1 May be Dual Enrollment)	UT Engineering Your World 2* ** (CT6514) (1 Credit) Grade 12

Program of Study: Robotics

	Year 1	Year 2	Year 3	Year 4
	Principles of Applied Engineering (CT6515) (1 Credit) Grades 9-10	Robotics 1 (CT6511) (1 Credit) Grades 10 - 11	Robotics 2* (CT6512) (1 Credit) Grade 11-12 <i>Certification: FAA -107 Drone Pilot</i>	Practicum in Manufacturing- Robotics (CT6516) (2 Credits) Grade 12

Program of Study: ACC Manufacturing Career Academy

	Year 1	Year 2	Year 3	Year 4
	Principles of Applied Engineering (CT6515) (1 Credit) Grades 9-10	Robotics 1 (CT6511) (1 Credit) Grades 10-11	Fall- Engineering Design and Presentation (ACC) (CT6520) (1 Credit) Grade 11 AND Spring- Principles of Manufacturing (ACC) (CT6521) (1 Credit) Grades 11	Practicum in Manufacturing (ACC) (CT6523) (3 Credits) Grade 12 <i>Certification: Certified Production Technician</i>

Program of Study: Biotechnology

	Year 1	Year 2	Year 3	Year 4
	Principles of Bioscience (CT7318) (1 Credit) Grades 9-10 <i>Certification: OSHA 10-Hour</i>	Biotechnology 1 * (CT7320) (1 Credit) Grades 10-11	Biotechnology 2 * (CT7321) (1 Credit) Grades 11-12 <i>Certification; BACE Biotechnician Assisitant</i>	Scientific Research and Design (SC4001) (2 Credits) Grade 12

Program of Study: Computer Science / Cybersecurity

Year 1	Year 2	Year 3	Year 4
Fundamentals of Computer Science MS: (TA2100) HS: (TA2202) (1 Credit) Grades 8-9 AND Computer Science I Honors (TA2200) (1 Credit) Grade 9	AP Computer Science Principles* (TA2207) (1 Credit) Grades 10-11 AND Foundations of Cybersecurity (CT7236) 1 Credit Grades 9 - 10	AP Computer Science A (TA2201) & (TA2206) (1 Credit) Grades 11-12 (Counts as Math and Foreign Language Credits) AND Networking with Lab (CT7218) (1 Credit) Grades 11-12 Certification: CompTIA Networks+ AND CompTIA A+	Practicum in Information Technology (CT7216) (2 Credits) Grade 12

**Endorsement: Business & Industry
Program of Study: Welding**

Year 1	Year 2	Year 3	Year 4
Introduction to Welding (CT7121) (1 Credit) Grades 9-10 Certification: OSHA 10- Hour General	Welding 1 ** (CT7134) (2 Credits) Grades 10-11	Welding 2 (CT7137) (2 Credits) Grades 11-12	Practicum in Manufacturing-Welding* (CT7138) (2 credits) Grade 12 Certifications: OSHA 30- Hour and American Welding Society Structural Steel

**Endorsement: Business & Industry
Program of Study: Construction Management**

Year 1	Year 2	Year 3	Year 4
Principles of Construction ** (CT7022) (1 Credit) Grades 9-10 Certification: OSHA 10- Hour General	Construction Management 1 (CT7027) (2 Credits) Grades 10-11	Construction Management 2 (CT7028) (2 Credits) Grades 11-12	Practicum In Construction Technology- Construction Management* (CT7147) (2 Credits) Grade 12 Certification: OSHA 30-Hour

**Endorsement: Multi-Disciplinary Studies ** Must meet the requirements of the 4x4 Plan
Program of Study: (Non-CTE Program) Sports Medicine and Marketing**

Year 1	Year 2	Year 3	Year 4
Exercise Physiology (PE5010) (1 Credit) Grades 9-10	Sports Medicine 1 (EL7222) (1 credit) Grades 10-11	Sports Medicine 2 (EL7223) (1 Credit) Grades 11-12 AND Anatomy & Physiology (SC3212) (1 Credit) Grades 11-12	Sports Medicine 3 (EL7224) (1 Credit) Grade 12 AND Entrepreneurship 1 (CT1432) (1 credit) Grades 11-12 Certification: Entrepreneurship and Small Business (ESB)