

Agricultural Business Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture 	<ul style="list-style-type: none"> Agricultural Biology Agricultural Computers Animal Science Integrated Agricultural Science Ornamental Horticulture Plant Science 	<ul style="list-style-type: none"> Agricultural Business Management Agricultural Economics and Policy Agricultural Sales and Service 	<ul style="list-style-type: none"> Agricultural Lending Office Clerk Agricultural Retail Salesperson Equipment Parts Salesperson 	<ul style="list-style-type: none"> Customer Service Representative Farm Accountant Farm Realtor/Appraiser 	<ul style="list-style-type: none"> Agricultural Commodity Broker+ Agricultural Sales and Marketing Manager Agricultural Supplies Purchasing Agent/Buyer

Agricultural Mechanics Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agricultural Mechanics Introduction to Agriculture 	<ul style="list-style-type: none"> Advanced Agricultural Mechanics Agricultural Small Engines Agricultural Welding 	<ul style="list-style-type: none"> Agricultural Fabrication/Construction Agricultural/Farm Power and Equipment 	<ul style="list-style-type: none"> Farm Equipment Operator Farm Equipment Parts Person Welder 	<ul style="list-style-type: none"> Equipment Fabricator Equipment Service Technician Heavy Equipment Operator 	<ul style="list-style-type: none"> Agricultural Engineer Agricultural Mechanics Teacher+ Irrigation Engineer

Agriscience Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture 	<ul style="list-style-type: none"> Agricultural Biology Agriscience 	<ul style="list-style-type: none"> Advanced Plant and Animal Science Agricultural Biotechnology Agricultural Business Management 	<ul style="list-style-type: none"> Laboratory Aide Laboratory Animal Caretaker Plant Propagator 	<ul style="list-style-type: none"> Animal/Plant Laboratory Technician Food Processing Technician Quality Assurance Specialist 	<ul style="list-style-type: none"> Agricultural Science Teacher+ Biotechnology Specialist Plant/Animal Geneticist

Animal Science Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture 	<ul style="list-style-type: none"> Agricultural Biology Animal Science 	<ul style="list-style-type: none"> Agricultural Biotechnology Animal and Plant Physiology Veterinary Technician 	<ul style="list-style-type: none"> Farm and Ranch Assistant Feed Store Clerk Veterinary Hospital Assistant 	<ul style="list-style-type: none"> Breeding Technician+ Livestock Feed Sales Meat Inspector 	<ul style="list-style-type: none"> Animal Nutritionist Processing Plant Manager Veterinarian+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: FFA (<http://www.calaged.org>)

Additional Industry Sector information available through the California Central Valley Consortium Agricultural Education Tech Prep (<http://www.agedtechprep.com/>).

Forestry and Natural Resources Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture 	<ul style="list-style-type: none"> Agricultural Biology Integrated Agricultural Science 	<ul style="list-style-type: none"> Forestry Natural Resource Management Rural Recreation Wildlife/Fisheries Management 	<ul style="list-style-type: none"> Park Ranger Aide Soil Conservation Aide Wilderness Firefighter 	<ul style="list-style-type: none"> Hunting Preserve Manager Surveying Technician Tree Farm Supervisor 	<ul style="list-style-type: none"> Aquatic/Game Biologist Soil Conservationist State Park Manager

Ornamental Horticulture Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture Introduction to Ornamental Horticulture 	<ul style="list-style-type: none"> Agricultural Biology Floriculture Integrated Agricultural Science Nursery/Greenhouse Production 	<ul style="list-style-type: none"> Advanced Ornamental Horticulture Irrigation and Water Management Landscape Design and Maintenance Turf and Golf Management 	<ul style="list-style-type: none"> Landscape Equipment Operator Nursery Sales Associate Tree Trimmer and Pruner 	<ul style="list-style-type: none"> Floral Designer Garden Equipment and Supplies Dealer Landscape Contractor+ 	<ul style="list-style-type: none"> Entomologist Greenhouse and Nursery Manager Landscape Architect+

Plant and Soil Science Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Agriculture 	<ul style="list-style-type: none"> Agricultural Biology Integrated Agricultural Science Plant and Soil Science 	<ul style="list-style-type: none"> Agricultural Entomology and Pest Control Crop Science Environmental Science Viticulture 	<ul style="list-style-type: none"> Crop Farmer Field Assistant Insect Monitor/Collector 	<ul style="list-style-type: none"> Field Representative Tissue Culture Technician Viticulturist 	<ul style="list-style-type: none"> Agriculture Association Manager Integrated Pest Management Specialist Pest Control Advisor+

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Food Science, Dietetics, and Nutrition Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Food for Health and Fitness Food Science (Chemistry of Foods) Food Technology and Nutrition 	<ul style="list-style-type: none"> Careers in Food Science, Dietetics, and Nutrition Food Science and Dietetics 	<ul style="list-style-type: none"> Dietary Aide Food Laboratory Aide Food Product Tester Quality Control Technician Test Food Kitchen Assembler 	<ul style="list-style-type: none"> Dietetic Technician+ Food Inspector+ Food Production Chemist Personal Chef Test Kitchen Chef 	<ul style="list-style-type: none"> Food Journalist/ Technical Writer Food Product Developer Food Scientist Food Technologist Registered Dietician+

Food Service and Hospitality Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Food, Nutrition, and Meal Management Foods and Nutrition Nutritional Science 	<ul style="list-style-type: none"> Careers in Food Service and Hospitality (Culinary Arts) Food and Beverage Production 	<ul style="list-style-type: none"> Baker Helper Food Expediter Line cook Pastry Chef Assistant Wait Staff 	<ul style="list-style-type: none"> Caterer Chef+ Food Designer Food Service Manager+ Pastry Chef+ 	<ul style="list-style-type: none"> Food and Beverage Analyst Food Service Director Food Stylist General Manager Sous/Executive Chef

Hospitality, Tourism, and Recreation Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Introduction to Hospitality and Tourism Introduction to the Lodging Industry Introduction to Travel and Tourism Principles of Event Planning 	<ul style="list-style-type: none"> Attractions, Events, and Related Services Careers in Hospitality, Tourism, and Recreation Lodging and Hotel Operations Travel-related Services 	<ul style="list-style-type: none"> Camp Counselor Front-Desk Worker Host/Hostess/Wait Staff Recreation Leader Spa Attendant 	<ul style="list-style-type: none"> Club Professional or Manager Concert Promoter Event/Wedding Planner+ Flight Attendant Specialty Cook 	<ul style="list-style-type: none"> Club/Resort/Hotel Manager Convention Coordinator Theme Park Director Travel Company Owner/Manager

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: DECA (<http://www.cadeca.org>), FBLA (<http://www.cafbla.org>), FHA-HERO (<http://www.hect.org/fhahero>), and SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the Los Angeles Mission College Tech Prep Distribution Points Project (<http://www.lamission.edu/techprep/projects.aspx>).

Information Support and Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Office Technology 	<ul style="list-style-type: none"> ▪ Microsoft Office Specialist Certification 	<ul style="list-style-type: none"> ▪ Administrative Assistant ▪ Help Desk Support Technician ▪ Word Processing Operator 	<ul style="list-style-type: none"> ▪ Desktop Publisher ▪ Information Systems Specialist ▪ Database Administrator ▪ Technical Writer 	<ul style="list-style-type: none"> ▪ Software Engineer ▪ Information Systems Architect ▪ IT Manager/Director ▪ Business Teacher

Media Support and Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Computer Application ▪ Introduction to Business ▪ Introduction to Desktop Publishing 	<ul style="list-style-type: none"> ▪ Desktop Publishing ▪ Web Design 	<ul style="list-style-type: none"> ▪ Multimedia and Image Management ▪ Advanced Web Design 	<ul style="list-style-type: none"> ▪ Computer Operator ▪ Production Technician ▪ Web Page Developer 	<ul style="list-style-type: none"> ▪ Computer Graphic Artist ▪ Desktop Publisher ▪ Multimedia Specialist ▪ Web Designer ▪ Webmaster 	<ul style="list-style-type: none"> ▪ Graphic Designer ▪ Multimedia Artist ▪ Multimedia Producer ▪ Web Architect ▪ Corporate Communications Manager

Network Communications Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Keyboarding ▪ Computer Applications 	<ul style="list-style-type: none"> ▪ Advanced Computer Operations ▪ Network Systems I 	<ul style="list-style-type: none"> ▪ Network Systems II 	<ul style="list-style-type: none"> ▪ Network Systems Assistant ▪ Network Systems Technician 	<ul style="list-style-type: none"> ▪ Software/Hardware Installer ▪ Telecommunications Specialist ▪ Network Administrator ▪ Data Communications Specialist 	<ul style="list-style-type: none"> ▪ Network Administrator ▪ Network Engineer ▪ Network Manager/Director ▪ Project Manager ▪ Computer Security Specialist

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Related Career Technical Student Organization: FBLA (<http://www.cafbla.org>), DECA (<http://www.cadeca.org>), and SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information is available through Business Education Resource Consortium (<http://www.bused.org>).



Programming and Systems Development Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Computer Applications ▪ Exploratory Business ▪ Introduction to Programming 	<ul style="list-style-type: none"> ▪ Computer Programming ▪ Programming and Software Development ▪ Java Programming ▪ Visual Basic Programming 	<ul style="list-style-type: none"> ▪ Advanced Programming ▪ AP Computer Science ▪ Game Programming 	<ul style="list-style-type: none"> ▪ Programmer ▪ Software Applications Support ▪ Software Technician 	<ul style="list-style-type: none"> ▪ Programmer ▪ Software Applications Reporting ▪ Software Documentation Specialist 	<ul style="list-style-type: none"> ▪ Chief Software Architect ▪ Computer Software/Hardware Engineer ▪ Manager of Software Development ▪ Operating Systems Designer ▪ Software Architect

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Graphic Arts Technology Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Drafting ▪ Exploring Technology ▪ Orientation to Graphic Arts Apprenticeship ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Communications Technology ▪ Graphic Arts/Communications ▪ Photography Laboratory 	<ul style="list-style-type: none"> ▪ Commercial Photography ▪ Composition, Lithography, and Platemaking ▪ Composition, Makeup, and Typesetting ▪ Desktop Publishing 	<ul style="list-style-type: none"> ▪ Desktop Publisher ▪ Graphic Art Equipment Operator ▪ Network Installer+ ▪ Pre-Press Designer ▪ Graphic Arts Apprentice 	<ul style="list-style-type: none"> ▪ Commercial Photographer ▪ Production Manager ▪ Network Administrator+ ▪ Graphic Artist (Journeyman) 	<ul style="list-style-type: none"> ▪ Publisher, Editor ▪ Product Developer ▪ Industrial Technology Educator+ ▪ Network Engineer+ ▪ Graphic Designer

Integrated Graphics Technology Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Drafting/Communications ▪ Exploring Technology ▪ Graphic Arts ▪ Graphic Communications Apprenticeship Awareness ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Communications Technology ▪ Graphic Communications ▪ Graphic Communications Apprenticeship Explorations ▪ Photography Laboratory ▪ Video Production 	<ul style="list-style-type: none"> ▪ Animation ▪ Broadcasting Production ▪ Multimedia ▪ Orientation to Graphic Communications Apprenticeship 	<ul style="list-style-type: none"> ▪ Desktop Publisher ▪ Special Effects Animator ▪ Special Effects Apprentice ▪ Video Graphics Helper ▪ Web Designer 	<ul style="list-style-type: none"> ▪ Advertising Design ▪ Multimedia/Digital Editor ▪ Special Effects Editor ▪ Special Effects Journeyman ▪ Webmaster 	<ul style="list-style-type: none"> ▪ Industrial and Technology Educator+ ▪ Multimedia Author ▪ Multimedia/Digital Producer ▪ Publications Management ▪ Special Effects Engineer

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).

Machine and Forming Technology Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Drafting ▪ Exploring Technology ▪ Metalworking ▪ Orientation to Machine and Forming Apprenticeship ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Ironworking ▪ Machine Shop ▪ Manufacturing I ▪ Plastics/Composites ▪ Sheet Metal 	<ul style="list-style-type: none"> ▪ Foundry/Metallurgy ▪ Machine Tool Operations ▪ Manufacturing II ▪ Plastics/Composites 	<ul style="list-style-type: none"> ▪ Assembler ▪ Electro-Mechanical Helper ▪ Installation Apprentice ▪ Machine Operator ▪ Maintenance Mechanic 	<ul style="list-style-type: none"> ▪ CNC Programmer ▪ Industrial Electrician+ ▪ Machine Technician ▪ Manager ▪ Tooling Journeyman 	<ul style="list-style-type: none"> ▪ Design Engineer ▪ Industrial Technology Educator+ ▪ Manufacturing Engineer+ ▪ Mechanical Engineer+ ▪ Tooling Engineer

Welding Technology Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Metalworking ▪ Orientation to Welding Apprenticeship ▪ Technology Core ▪ Welding Fundamentals 	<ul style="list-style-type: none"> ▪ Manufacturing/Materials Processing ▪ Technical Drafting ▪ Welding Fabrication, Ironworking ▪ Welding-Combination I ▪ Welding-Electrical 	<ul style="list-style-type: none"> ▪ Computer-aided Drafting (CAD) ▪ Computer-aided Manufacturing (CAM) ▪ Foundry ▪ Welding-Combination II ▪ Welding-Specialized 	<ul style="list-style-type: none"> ▪ Cutter, Solder, Brazier ▪ Foundry Helper ▪ Plastics Assembler ▪ Welder ▪ Welding Apprentice+ 	<ul style="list-style-type: none"> ▪ Boilermaker+ ▪ Certified Welder+ ▪ Composite Fabricator ▪ Foundry Core, Pattern Maker ▪ Welding Journeyman+ 	<ul style="list-style-type: none"> ▪ Fabrication Designer ▪ Industrial Technology Educator+ ▪ Manufacturing Engineer ▪ Pressurized Vessel Engineer+ ▪ Quality Control Inspector

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E-Commerce Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Introduction to Marketing ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting ▪ Advanced Computer Applications ▪ Business Management ▪ E-Commerce Marketing ▪ Finance ▪ Principles of Marketing ▪ Retail Marketing ▪ Web Design 	<ul style="list-style-type: none"> ▪ International Business ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Administrative Support Representative ▪ Customer Service Representative ▪ Customer Support Specialist 	<ul style="list-style-type: none"> ▪ Account Supervisor ▪ Copywriter-Designer ▪ E-Commerce Marketing Specialist ▪ Forum Manager 	<ul style="list-style-type: none"> ▪ Brand Manager ▪ E-Commerce Director ▪ E-Commerce Entrepreneur ▪ Interactive Sales Engineer ▪ Business Teacher

Entrepreneurship Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Introduction to Marketing ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting ▪ Business Management ▪ Finance ▪ Principles of Marketing ▪ Retail Marketing 	<ul style="list-style-type: none"> ▪ Entrepreneurship ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Customer Service Representative ▪ Small Business Entrepreneur 	<ul style="list-style-type: none"> ▪ Franchisee ▪ Marketing Manager ▪ Regional Sales Manager ▪ Retail/Wholesale Buyer 	<ul style="list-style-type: none"> ▪ Account Executive ▪ Business Teacher ▪ Chief Executive Officer ▪ National Account Manager

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International Trade Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Introduction to Marketing ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting ▪ Business Management ▪ Finance ▪ Principles of Marketing ▪ Retail Marketing 	<ul style="list-style-type: none"> ▪ International Business ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Sales Representative ▪ Shipping and Receiving Clerk ▪ Stocking and Handling Worker 	<ul style="list-style-type: none"> ▪ Route Salesperson ▪ Warehouse Manager 	<ul style="list-style-type: none"> ▪ Economist ▪ International Distribution Manager ▪ International Trade Specialist ▪ Marketing Research Analyst ▪ Wholesale Distribution Manager

Professional Sales and Marketing Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Introduction to Marketing ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting ▪ Business Management ▪ Finance ▪ Principles of Marketing ▪ Retail Marketing 	<ul style="list-style-type: none"> ▪ Entrepreneurship ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Customer Service Representative ▪ Small Business Entrepreneur ▪ Telemarketer 	<ul style="list-style-type: none"> ▪ Franchisee ▪ Marketing Manager ▪ Regional Sales Manager ▪ Retail/Wholesale Buyer 	<ul style="list-style-type: none"> ▪ Account Executive ▪ Business Teacher ▪ Chief Executive Officer ▪ National Account Manager

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Additional Industry Sector information available through Business Education Resource Consortium (<http://www.bused.org>).



Human Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Conflict Resolution Introduction to Human Services 	<ul style="list-style-type: none"> Principles of Recovery and Psychosocial Rehabilitation Recovery and Special Populations 	<ul style="list-style-type: none"> Helping Relationships Psychosocial Rehabilitation Worker Field Experience 	<ul style="list-style-type: none"> Case Manager Aide Child Care Aide Foster Care Worker Mental Health Aide Youth Worker 	<ul style="list-style-type: none"> Licensed Psychiatric Technician+ Mental Health Worker+ Residential Counselor+ Social Service Coordinator+ Substance Abuse Counselor+ 	<ul style="list-style-type: none"> Family Social Service Worker Licensed Clinical Social Worker+ Marriage and Family Therapist+ Mental Health Rehabilitation Specialist +

Legal and Government Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Constitutional Law A and B 	<ul style="list-style-type: none"> Criminal Justice/ Policies and Procedures 	<ul style="list-style-type: none"> Criminal Law/ International Law 	<ul style="list-style-type: none"> Elected Official 	<ul style="list-style-type: none"> Legal Clerk+ Paralegal+ 	<ul style="list-style-type: none"> Attorney+ Diplomatic Service

Protective Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Fire Science I Police Science 	<ul style="list-style-type: none"> Fire Science II Forensic Science 	<ul style="list-style-type: none"> Fire Internship Law Enforcement Internship 	<ul style="list-style-type: none"> Animal Control Officer+ Armed Forces Police Officer Emergency Medical Technician+ Parking Enforcement Officer+ Security Guard+ 	<ul style="list-style-type: none"> Corrections Officer+ Crime Scene Technician+ Criminal Investigator+ Firefighter+ Paramedic+ Police Officer+ Private Investigator+ U.S. Customs Officer+ 	<ul style="list-style-type: none"> ATF Agent+ DEA Agent+ FBI Agent+ Federal Marshal+ Fire Captain/Chief+ Police Lieutenant/ Captain/Chief+

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Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)



Transportation Industry Sector Pathway Options

WHODOUWANT2B.COM

Aviation and Aerospace Transportation Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Small Engines ▪ Exploring Technology ▪ Technology Core ▪ Basic Automotive 	<ul style="list-style-type: none"> ▪ Electronics ▪ Auto 1 	<ul style="list-style-type: none"> ▪ Avionics ▪ Radio Communications ▪ Aviation Aircraft Engines 	<ul style="list-style-type: none"> ▪ Ground Support Crew ▪ Mechanic's Assistant ▪ Flight Attendant ▪ Porter ▪ Apprentice/Intern ▪ Aircraft Detailer 	<ul style="list-style-type: none"> ▪ Military Ground Crew ▪ Airframe and Power Plant Technician ▪ Maintenance Worker ▪ Ramp Service Worker ▪ Dispatcher 	<ul style="list-style-type: none"> ▪ Engineer ▪ Astronaut ▪ Instructor+ ▪ Pilot+

Collision Repair and Refinishing Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Automotive Technology ▪ Small Engines 	<ul style="list-style-type: none"> ▪ Basic Collision Repair ▪ Basic Auto Refinishing ▪ Automotive Construction ▪ Steering and Suspension ▪ Auto 1 	<ul style="list-style-type: none"> ▪ Advanced Collision Repair Technology ▪ Advanced Auto Refinishing 	<ul style="list-style-type: none"> ▪ Collision Repair Intern or Apprentice ▪ Refinisher Helper ▪ Auto Detailer 	<ul style="list-style-type: none"> ▪ Collision Repair Technician ▪ Collision Repair Shop Owner ▪ Auto Refinish Technician ▪ Auto Glass Installer ▪ Assistant Manager 	<ul style="list-style-type: none"> ▪ Insurance Claims Adjuster ▪ Collision Shop Manager ▪ Instructor+ ▪ Paint Manufacturer Representative

Vehicle Maintenance, Service, and Repair Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Automotive Repair ▪ Small Engines ▪ Technology Core ▪ Exploring Technology 	<ul style="list-style-type: none"> ▪ Brakes ▪ Electrical Systems and Electronics ▪ Steering and Suspension ▪ Outdoor Power Equipment ▪ Auto Fundamentals 	<ul style="list-style-type: none"> ▪ Advanced Automotive ▪ Engine Performance/Smog ▪ Motorcycle ▪ Diesel 	<ul style="list-style-type: none"> ▪ Porter/Lot Person ▪ Lube Technician ▪ Aftermarket Sales Representative ▪ Vehicle Maintenance Intern or Apprentice ▪ Parts and Service Counter Person ▪ Salesperson ▪ Vehicle Maintenance Technician 	<ul style="list-style-type: none"> ▪ Line Technician ▪ Service Writer ▪ Motor Carrier ▪ Technical Writer ▪ Smog Technician+ ▪ Driver ▪ Inspector 	<ul style="list-style-type: none"> ▪ Fleet Manager or Director ▪ Shop Foreman or Forewoman ▪ Parts and Service Manager ▪ Instructor+ ▪ Manufacturer's Representative

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Media and Design Arts Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Design and Media Arts ▪ Introduction to Digital Graphics ▪ Film and New Media ▪ Introduction to Design 	<ul style="list-style-type: none"> ▪ Two-Dimensional Design ▪ Animation ▪ Internet Publishing ▪ Filmmaking ▪ Computer Graphics ▪ Broadcast Journalism 	<ul style="list-style-type: none"> ▪ Digital Animation ▪ Three-Dimensional Modeling ▪ Video Production ▪ Cinematography ▪ Computer Game Design ▪ Technical Writing ▪ Advertising Art 	<ul style="list-style-type: none"> ▪ Film Loader ▪ Animation Assistant ▪ Makeup Artist ▪ Sign Painter 	<ul style="list-style-type: none"> ▪ Videographer ▪ Prop Maker ▪ Cutter/Fitter/Seamstress ▪ Special Effects Coordinator ▪ Web Designer 	<ul style="list-style-type: none"> ▪ User Interface Designer ▪ Sound Engineer ▪ Medical and Scientific Illustrator ▪ Scriptwriter ▪ Media and Design Arts Instructor

Performing Arts Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Professional Dance 	<ul style="list-style-type: none"> ▪ Instrument Tuning and Repair ▪ Musical Notation ▪ Professional Dance 	<ul style="list-style-type: none"> ▪ Choreography ▪ Professional Theatre ▪ Professional Music Composition ▪ Radio Announcing Apprenticeship 	<ul style="list-style-type: none"> ▪ Disc Jockey ▪ Actor ▪ Announcer ▪ Voice-over Artist ▪ Stunt Double 	<ul style="list-style-type: none"> ▪ Actor ▪ Music Minister ▪ Radio/Television Broadcaster 	<ul style="list-style-type: none"> ▪ Musical Accompanist ▪ Music Director/Conductor ▪ Acoustician ▪ Film Composer ▪ Choreographer

Production and Managerial Arts Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Multimedia Production ▪ Technical Theatre ▪ Introduction to Sound Mixing 	<ul style="list-style-type: none"> ▪ Broadcast Production ▪ Set Design ▪ Television Production 	<ul style="list-style-type: none"> ▪ Stage Production Management ▪ Filmmaking ▪ Sound Engineering and Design 	<ul style="list-style-type: none"> ▪ Third Assistant Director ▪ Focus Puller ▪ Camera Loader ▪ Dolly Grip ▪ Tape/Film Logger 	<ul style="list-style-type: none"> ▪ First Assistant Camera Operator ▪ Gaffer (Chief Lighting Technician) ▪ Key Production Grip ▪ Script Supervisor ▪ Negative Cutter 	<ul style="list-style-type: none"> ▪ Producer ▪ Line Producer ▪ Sound Design Editor ▪ Visual Effects Coordinator ▪ Second Unit Director

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

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Related Career Technical Student Organization: FBLA (<http://www.cafbla.org/>), DECA (<http://www.cadeca.org>), and SkillsUSA (<http://www.skillsusaca.com>)



Cabinetmaking and Wood Products Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core ▪ Wood Technology 	<ul style="list-style-type: none"> ▪ Woodworking 1 ▪ Woodworking 2 	<ul style="list-style-type: none"> ▪ Cabinetmaking ▪ Furniture Design 	<ul style="list-style-type: none"> ▪ Cabinetmaking Apprentice+ ▪ Machine Operator 	<ul style="list-style-type: none"> ▪ Cabinetmaking Journeyman+ ▪ CNC Technician 	<ul style="list-style-type: none"> ▪ Cabinetmaking Instructor+ ▪ Designer ▪ Engineer

Engineering and Heavy Construction Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Construction 1 ▪ Wood 1 	<ul style="list-style-type: none"> ▪ Equipment Operator ▪ Carpentry 	<ul style="list-style-type: none"> ▪ Apprentice Engineer+ ▪ Laborer 	<ul style="list-style-type: none"> ▪ Contractor+ ▪ Electrician+ ▪ Heavy Construction Journeyman+ ▪ Iron Worker ▪ Plumber+ 	<ul style="list-style-type: none"> ▪ Business Owner ▪ Engineer ▪ Engineering and Heavy Construction Instructor+

Mechanical Construction Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core ▪ Construction 1 	<ul style="list-style-type: none"> ▪ Construction 1 ▪ Construction 2 	<ul style="list-style-type: none"> ▪ Building Construction ▪ Electrical Wiring ▪ Plumbing 	<ul style="list-style-type: none"> ▪ Electrician's Helper ▪ Mechanical Construction Apprentice+ 	<ul style="list-style-type: none"> ▪ Electrician+ ▪ HVAC Technician+ ▪ Mechanical Construction Journeyman+ ▪ Plumber+ 	<ul style="list-style-type: none"> ▪ Contractor+ ▪ Engineer+ ▪ Mechanical Construction Instructor+

Residential and Commercial Construction Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Construction 1 ▪ Exploring Technology ▪ Construction 1 	<ul style="list-style-type: none"> ▪ Construction 2 	<ul style="list-style-type: none"> ▪ Carpentry ▪ Construction Technology 	<ul style="list-style-type: none"> ▪ Carpenter Apprentice+ ▪ Heavy Equipment Operator ▪ Laborer 	<ul style="list-style-type: none"> ▪ Carpenter Journeyman+ ▪ Contractor+ ▪ Iron Worker ▪ Surveyor ▪ Welder+ 	<ul style="list-style-type: none"> ▪ Carpentry Instructor+ ▪ Engineer

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Child Development Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Child Development and Guidance Child Psychology 	<ul style="list-style-type: none"> Careers in Child Development Careers in Early Childhood Education 	<ul style="list-style-type: none"> After-School Program Supervisor+ Child Care Provider Family Child Care Supervisor Infant Caregiver Preschool Aide 	<ul style="list-style-type: none"> Head Start Teacher+ Parent Educator Preschool Teacher+ Teacher's Aide 	<ul style="list-style-type: none"> Child Protection Social Worker+ Child Psychologist+ Children's Library Media Assistant Specialist+ Preschool Director+ School or Adoption Counselor+

Consumer Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Consumer Education Economics for Living 	<ul style="list-style-type: none"> Careers in Consumer Services Consumer, Personal, and Financial Services 	<ul style="list-style-type: none"> Consumer Complaint Clerk Customer Service Representative Display Clerk Product Demonstrator Shipping and Receiving Clerk 	<ul style="list-style-type: none"> Consumer Credit Manager Consumer Products Tester Insurance Representative+ Property Manager Public Relations Representative 	<ul style="list-style-type: none"> Certified Financial Planner+ Consumer Affairs Director Consumer Economist Consumer Information Specialist Product and Development Researcher

Education Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Home Economics Careers & Technology Comprehensive Core I Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> Human Growth and Development Psychological Development of Children 	<ul style="list-style-type: none"> Careers in Education Teaching and Learning Teaching Careers 	<ul style="list-style-type: none"> After-School Program Aide Child Care Worker Recreation Aide Teacher's Aide Tutor 	<ul style="list-style-type: none"> Head Start Teacher Instructional Support Provider Preschool Director/Supervisor Special Education Aide Preschool Teacher 	<ul style="list-style-type: none"> Elementary, Secondary, or Postsecondary Teacher+ School Administrator+ School Counselor+ Special Education Teacher+ Speech and Language Therapist+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: FHA-HERO (<http://www.hect.org/fhahero>)

Additional Industry Sector information available through the California Home Economics Careers & Technology Professional Development Project (<http://www.hect.org/>).



Family and Human Services Pathway
Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Home Economics Careers & Technology Comprehensive Core I ▪ Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> ▪ Family and Human Development ▪ Individual and Family Health 	<ul style="list-style-type: none"> ▪ Careers in Family and Human Services ▪ Elder Care and Intergenerational Services 	<ul style="list-style-type: none"> ▪ Adult Day Care Worker ▪ Elder Care Worker ▪ Homemaker's Aide ▪ Personal/Home Care Aide ▪ Residential Care Aide 	<ul style="list-style-type: none"> ▪ Certified Activities Director+ ▪ Community Worker ▪ Social Services Technician Aide ▪ Special Needs Case Worker 	<ul style="list-style-type: none"> ▪ Community Organization Director ▪ Elder Care Coordinator ▪ Family Advocate ▪ Group Home Administrator ▪ Residential Care Facility Administrator

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)
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 +This occupation requires certification or licensure.
 Related Career Technical Student Organization: FHA-HERO (<http://www.hect.org/fhahero>)
 Additional Industry Sector information available through the California Home Economics Careers & Technology Professional Development Project (<http://www.hect.org/>).



Electromechanical Installation and Maintenance Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Drafting ▪ Computer Applications ▪ Consumer Electronics 	<ul style="list-style-type: none"> ▪ A Plus Certification ▪ CAD/CAM ▪ Technical Writing 	<ul style="list-style-type: none"> ▪ Appliance Worker ▪ Electrical Worker ▪ Electronic Equipment Worker ▪ Electronic Utility Worker ▪ Power Meter Reader 	<ul style="list-style-type: none"> ▪ Appliance Repair Technicians ▪ Electrical Technician ▪ Instrument Calibration Repairers ▪ Meter Installers/Repairers ▪ Utility Technicians 	<ul style="list-style-type: none"> ▪ Cabinetmaking Instructor+ ▪ Designer ▪ Meter Service Engineer+

Energy and Environmental Technology Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Consumer Electronics ▪ Machining ▪ Engine Repair and Maintenance 	<ul style="list-style-type: none"> ▪ Electronic Repair and Maintenance ▪ Electronics ▪ Metal Manufacturing 	<ul style="list-style-type: none"> ▪ Energy Management Worker ▪ Environmental Pollution Worker ▪ Industrial Facilities Worker ▪ Utilities Worker ▪ Waste Management Worker 	<ul style="list-style-type: none"> ▪ Energy Management Technician ▪ Environmental Pollution Technician ▪ Industrial Facilities Technician ▪ Utilities Technician ▪ Waste Management Technician 	<ul style="list-style-type: none"> ▪ Energy Management Engineer+ ▪ Environmental Pollution Engineer+ ▪ Industrial Facilities Engineer+ ▪ Utilities Engineer+ ▪ Waste Management Engineer+

Public Utilities Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Consumer Electronics ▪ Machining ▪ Environmental Science 	<ul style="list-style-type: none"> ▪ Electronic Repair and Maintenance ▪ Hazardous Materials Management ▪ Metal Manufacturing 	<ul style="list-style-type: none"> ▪ Meter Reader ▪ Power Line Worker ▪ Facility Worker ▪ Waste Management Worker 	<ul style="list-style-type: none"> ▪ Meter Installer ▪ Power Line Technician ▪ Facility Technician ▪ Waste/Sewer Technician 	<ul style="list-style-type: none"> ▪ Meter Design Engineer+ ▪ Power Grid Engineer+ ▪ Facilities Design Engineer+ ▪ Sanitation Engineer+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Residential and Commercial Energy and Utilities Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Drafting ▪ Machining Facility ▪ Woods 	<ul style="list-style-type: none"> ▪ CAD/COM ▪ Construction ▪ HVAC Technician 	<ul style="list-style-type: none"> ▪ Electrical Helper ▪ Entertainment System Helper ▪ HVAC Worker ▪ Industrial Maintenance Worker ▪ Solar Helper 	<ul style="list-style-type: none"> ▪ Electrician/Technician ▪ Entertainment System Technician/Installer ▪ Facilities Technician ▪ Industrial Maintenance Technician /Worker ▪ Solar Technician 	<ul style="list-style-type: none"> ▪ Electrical Engineer ▪ Entertainment System Engineer ▪ Facilities/Maintenance Engineer ▪ Industrial Maintenance Engineer ▪ Solar Engineer

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Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusa.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Architectural and Structural Engineering Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to CAD ▪ Introduction to Design Drafting ▪ Principles of Engineering ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Architectural Design ▪ Design Drafting ▪ Engineering Technology ▪ Mechanical Drawing ▪ Technical Drafting 	<ul style="list-style-type: none"> ▪ Advanced Architectural Design ▪ Computer-aided Design (CAD/CAM) ▪ Engineering Design 	<ul style="list-style-type: none"> ▪ CAD Technician ▪ Construction Apprentice ▪ Drafting Apprentice ▪ Engineering Aide ▪ Junior Drafter 	<ul style="list-style-type: none"> ▪ Drafter/Designer ▪ Engineering Technician ▪ Estimator ▪ Plan Checker ▪ Surveyor 	<ul style="list-style-type: none"> ▪ Architect+ ▪ Industrial Designer+ ▪ Civil Engineer+ ▪ Structural Engineer+ ▪ Instructor+

Computer Hardware, Electrical, and Networking Engineering Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Computer Fundamentals ▪ Electricity/Electronics ▪ Exploring Technology ▪ Technical Core 	<ul style="list-style-type: none"> ▪ Computer and Communications Networking ▪ Computer Systems Design/Maintenance ▪ Electrical Codes and Systems 	<ul style="list-style-type: none"> ▪ Computer Networking and Administration ▪ Electrical/Electronic Technology ▪ Essentials of Information Technology (A Plus) 	<ul style="list-style-type: none"> ▪ Apprentice Electrician ▪ Computer Equipment Installer ▪ Computer Repairer ▪ Electrician's Helper ▪ Telecommunications/Security Equipment Installer 	<ul style="list-style-type: none"> ▪ Computer Networking Technician+ ▪ Computer Technician+ ▪ Electrician+ ▪ Journeyman Electrician ▪ Telecommunications Technician 	<ul style="list-style-type: none"> ▪ Computer Engineer ▪ Electrical Engineer+ ▪ Instructor+ ▪ Network Administrator ▪ Telecommunications Engineer

Engineering Design Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Introduction to CAD ▪ Introduction to Drafting ▪ Principles of Technology 	<ul style="list-style-type: none"> ▪ Architectural Design ▪ Design Drafting ▪ Engineering Technology ▪ Mechanical Drawing 	<ul style="list-style-type: none"> ▪ Advanced Architectural Design ▪ Computer-aided Design (CAD) ▪ Electrical/Mechanical Technology ▪ Engineering Design 	<ul style="list-style-type: none"> ▪ CAD Technician ▪ Construction Apprentice ▪ Design/Drafting Apprentice ▪ Engineering Aide ▪ Junior Drafter/Trainee 	<ul style="list-style-type: none"> ▪ CAD/CAM Specialist ▪ Drafter/Designer ▪ Engineering Technician ▪ Journeyman Drafter 	<ul style="list-style-type: none"> ▪ Architect+ ▪ Civil Engineer+ ▪ Industrial Designer+ ▪ Instructor+ ▪ Structural Engineer+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

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+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Engineering Technology Pathway Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Exploring Technology ▪ Introduction to Computers ▪ Introduction to Drafting/CADD ▪ Introduction to Electricity/Electronics ▪ Introduction to Engineering Technology ▪ Metal Technology ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Digital Logic Design ▪ Electro-Mechanical Systems ▪ Mechatronics/Robotics 	<ul style="list-style-type: none"> ▪ Electrical/Electronic Technology ▪ Industrial Engineering Technology ▪ Telecommunications 	<ul style="list-style-type: none"> ▪ Apprentice Technician ▪ Electronic Mechanic Helper ▪ HVAC Installer ▪ Telecommunications/Security Equipment Installer 	<ul style="list-style-type: none"> ▪ Electronic Mechanic/Technician ▪ Facilities Technician ▪ Industrial Electronics Technician ▪ Journeyman Engineer ▪ Telecommunications Technician 	<ul style="list-style-type: none"> ▪ Electrical Engineer+ ▪ Facilities Maintenance Engineer ▪ Industrial Engineer Instructor+ ▪ Telecommunications Engineer

Environmental and Natural Science Engineering Pathway Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Essentials of Environmental Engineering ▪ Exploring Technology ▪ Introduction to Computers ▪ Introduction to Drafting/CADD ▪ Principles of Engineering ▪ Technology Core 	<ul style="list-style-type: none"> ▪ Computer Technology ▪ Drafting and Computer-aided Design ▪ Hydrology 	<ul style="list-style-type: none"> ▪ Electrical/Electronic Technology ▪ Environmental Science and Technology ▪ Industrial Engineering Technology ▪ Telecommunications 	<ul style="list-style-type: none"> ▪ Environmental Sampling Assistant ▪ Hazardous Material Removal ▪ Environmental Engineering Aide ▪ Environmental Apprentice 	<ul style="list-style-type: none"> ▪ Environmental Engineering Technician ▪ Environmental Planner Assistant ▪ Environmental Sampling Technician ▪ Journeyman Environmental Engineer ▪ Survey-Mapping Technician 	<ul style="list-style-type: none"> ▪ Environmental Engineer+ ▪ Environmental Planner+ ▪ Instructor+ ▪ Survey-Mapping Engineer

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: SkillsUSA (<http://www.skillsusaca.com>)

Additional Industry Sector information available through the California Industrial and Technology Education Consortium (<http://www.citeonline.org>).



Fashion Design, Manufacturing, and Merchandising Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Home Economics Careers & Technology Comprehensive Core I ▪ Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> ▪ Fashion, Textiles, and Apparel ▪ Apparel Design and Construction 	<ul style="list-style-type: none"> ▪ Careers in Fashion Design, Manufacturing, and Merchandising ▪ Fashion Merchandising ▪ Apparel Manufacturing and Production ▪ Fashion History and Design 	<ul style="list-style-type: none"> ▪ Sales Associate ▪ Assistant Store Manager ▪ Customer Service Provider ▪ Showroom Assistant ▪ Cutter 	<ul style="list-style-type: none"> ▪ Fashion Illustrator ▪ Visual Merchandiser ▪ Fashion Buyer ▪ Stylist ▪ Sales Representative 	<ul style="list-style-type: none"> ▪ Fashion Designer ▪ Fashion Journalist ▪ Fashion Forecaster ▪ Fashion Merchandise Manager ▪ Operational Manager

Interior Design, Furnishings, and Maintenance Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Home Economics Careers & Technology Comprehensive Core I ▪ Home Economics Careers & Technology Comprehensive Core II 	<ul style="list-style-type: none"> ▪ Environmental Design ▪ Housing and Interior Design 	<ul style="list-style-type: none"> ▪ Careers in Interior Design, Furnishings, and Maintenance ▪ Interior Design 	<ul style="list-style-type: none"> ▪ Retail Sales Associate ▪ Design Assistant ▪ Sales Representative ▪ Trade Intern (various occupations) ▪ Set Decorator 	<ul style="list-style-type: none"> ▪ Visual Merchandiser ▪ CAD Specialist ▪ Facility and Space Planner ▪ Assistant Designer 	<ul style="list-style-type: none"> ▪ Interior Designer ▪ Ergonomic Consultant ▪ Preservationist ▪ Lighting Specialist+ ▪ Certified Kitchen or Bath Specialist+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: FBLA (<http://www.cafbla.org>), DECA (<http://www.cadeca.org>), and SkillsUSA (<http://www.skillsusa.com>)

Additional Industry Sector information available through the Los Angeles Mission College Tech Prep Distribution Points Project (<http://www.lamission.edu/techprep/projects.aspx>).

Accounting Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting I & II ▪ Computer Accounting ▪ Record Keeping 	<ul style="list-style-type: none"> ▪ Entrepreneurship ▪ Internship ▪ Virtual Enterprise ▪ Volunteer Income Tax Assistance 	<ul style="list-style-type: none"> ▪ Account Clerk ▪ Audit Clerk ▪ Bookkeeper ▪ Payroll Clerk 	<ul style="list-style-type: none"> ▪ Account Specialist ▪ Cost Estimator ▪ Tax Preparer 	<ul style="list-style-type: none"> ▪ Accountant+ ▪ Auditor ▪ Budget Analyst ▪ Controller

Banking and Related Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Keyboarding 	<ul style="list-style-type: none"> ▪ Accounting I & II ▪ Financial Services ▪ Banking ▪ Money and Banking 	<ul style="list-style-type: none"> ▪ Business Law ▪ Business Statistics ▪ Entrepreneurship ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Account Collector ▪ Bank Teller ▪ Credit Clerk ▪ New Accounts Clerk 	<ul style="list-style-type: none"> ▪ Actuary ▪ Credit Analyst ▪ Customer Service Representative ▪ Loan Specialist 	<ul style="list-style-type: none"> ▪ Appraiser ▪ Bank Manager ▪ Credit Manager ▪ Escrow Officer ▪ Internal Auditor

Business Financial Management Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Business Communication ▪ Computer Applications ▪ Exploratory Business ▪ Financial Literacy ▪ Introduction to Business 	<ul style="list-style-type: none"> ▪ Accounting ▪ Financial Occupations ▪ Insurance Services ▪ Marketing ▪ Stocks, Bonds, and Investments 	<ul style="list-style-type: none"> ▪ Business Statistics ▪ Entrepreneurship ▪ Financial Management ▪ Virtual Enterprise 	<ul style="list-style-type: none"> ▪ Claims Clerk ▪ Collector ▪ Insurance Appraiser 	<ul style="list-style-type: none"> ▪ Claims Examiner ▪ Tax Examiner ▪ Treasurer ▪ Underwriting Assistant 	<ul style="list-style-type: none"> ▪ Budget Analyst ▪ Economist ▪ Finance Director ▪ Financial Planner ▪ Securities Manager

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>)

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information, and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: FBLA (<http://www.cafbla.org>) and DECA (<http://www.cadeca.org>)

Additional Industry Sector information available through Business Education Resource Consortium (<http://www.bused.org>).



Biotechnology Research and Development Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Introduction to Health Careers I ▪ Introduction to Health Careers II 	<ul style="list-style-type: none"> ▪ Introduction to Biotechnology I ▪ Medical Terminology ▪ Structure and Function 	<ul style="list-style-type: none"> ▪ Biotechnology Assistant ▪ Biotechnology Technician ▪ Introduction to Biotechnology II 	<ul style="list-style-type: none"> ▪ Biotechnology Assistant 	<ul style="list-style-type: none"> ▪ Biomedical Technician+ ▪ Biotechnology Technician+ ▪ Quality Assurance/Control Technician+ 	<ul style="list-style-type: none"> ▪ Bioinformatics Specialist+ ▪ Biomedical Chemist+ ▪ Biostatistician+ ▪ Biotechnology Scientist+ ▪ Clinical Trials Researcher+

Diagnostic Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Hospital Occupations ▪ Introduction to Health Careers I ▪ Introduction to Health Careers II ▪ Introduction to Imagery I 	<ul style="list-style-type: none"> ▪ Health: Biological Structure and Function ▪ Medical Terminology 	<ul style="list-style-type: none"> ▪ Bioengineering Assistant ▪ Medical Laboratory Assistant ▪ Radiology Assistant 	<ul style="list-style-type: none"> ▪ Medical Laboratory Aide ▪ Transporter 	<ul style="list-style-type: none"> ▪ Biotechnology Engineer ▪ Cardiology Technologist+ ▪ Medical Laboratory Assistant ▪ Medical Laboratory Technician+ ▪ Radiology Technologist+ 	<ul style="list-style-type: none"> ▪ Biotechnology Scientist+ ▪ Clinical Medical Technologist+ ▪ Geneticist+ ▪ Radiologist+

Health Informatics Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> ▪ Computer Technology ▪ Hospital Occupations ▪ Introduction to Health Careers I ▪ Introduction to Health Careers II 	<ul style="list-style-type: none"> ▪ Health: Biological Structure and Function ▪ Medical Terminology 	<ul style="list-style-type: none"> ▪ Insurance Billing ▪ Medical Coding ▪ Medical Transcription ▪ Skill-specific Health Informatics 	<ul style="list-style-type: none"> ▪ Health Unit Coordinator ▪ Medical Coder ▪ Medical Records Clerk ▪ Medical/Hospital Receptionist 	<ul style="list-style-type: none"> ▪ Medical Record Technician+ ▪ Medical Transcriptionist+ ▪ Telehealth Technician 	<ul style="list-style-type: none"> ▪ Health Educator ▪ Health Services Administrator ▪ Hospital/Nursing Home Administrator ▪ Medical Librarian

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>).

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: Health Occupations Students of America (HOSA) (<http://www.cal-hosa.org/>)

Additional Industry Sector information available through the California Health Careers Consortium (<http://www.health-careers.org/>).



Support Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Environmental Health Specialist+ Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Health Careers I Introduction to Health Careers II Introduction to Hospital Occupations 	<ul style="list-style-type: none"> Medical Terminology Structure and Function 	<ul style="list-style-type: none"> Hospital Support Services Maintenance and Supply Technician Medical Transporter 	<ul style="list-style-type: none"> Central Supply Aide Environmental Services Assistant 	<ul style="list-style-type: none"> Central Supply Technician+ Environmental Services Technician+ Mortician+ 	<ul style="list-style-type: none"> Industrial Hygienist+ Materials Management Supervisor+ Nursing Home Administrator+

Therapeutic Services Pathway

Sample CTE Courses*

Education Level and Related Occupations**

Introductory	Concentration	Capstone	High School Diploma	Certification and/or AA Degree	Bachelor's Degree or Higher
<ul style="list-style-type: none"> Introduction to Health Careers I Introduction to Health Careers II Introduction to Hospital Occupations 	<ul style="list-style-type: none"> Hospital Occupations II Medical Terminology Structure and Function 	<ul style="list-style-type: none"> Certified Nursing Assistant Dental Assistant Emergency Medical Technician Medical Assistant 	<ul style="list-style-type: none"> Certified Nurses Assistant+ Emergency Medical Technician+ Medical Assistant Physical Therapy Aide Respiratory Therapy Aide 	<ul style="list-style-type: none"> Dental Hygienist+ Fitness/Aerobics Instructor+ Licensed Vocational Nurse/Registered Nurse+ Pharmacy Technician+ Registered Physical Therapy Aide+ 	<ul style="list-style-type: none"> Dentist+ Exercise Physiologist+ Pharmacist+ Physical Therapist+ Physician Assistant+

*Sample CTE Courses are from the Career Technical Education Framework for California Public Schools (California Department of Education: 2007, <http://www.cde.ca.gov/re/pn/fd/>).

**Visit ASSIST (www2.assist.org/browseAreas.do) for community college and UC/CSU information and California Career Zone (www.cacareerzone.org) for occupation information.

+This occupation requires certification or licensure.

Related Career Technical Student Organization: Health Occupations Students of America (HOSA) (<http://www.cal-hosa.org/>)

Additional Industry Sector information available through the California Health Careers Consortium (<http://www.health-careers.org/>).