



2017-18 Career Technical Education High School Course Descriptions



3D CAD I (Computer Aided Design I)

869Z/ZF/ZS

Articulated FCC/SAC

Level 3. 3D CAD is a one year Engineering Pathway course designed to prepare students for industry certification using 3D drafting software. The course introduces students to the fundamentals of 2D drafting and sketching. Students will master 3D modeling including sketching, assembly, and rapid prototyping in a variety of project-based applications. **Century**

A+ Certification

841T/TF/TS

Level 3. The course will give students the academic and technical skills of an entry-level computer support technician. Instructional components will include system hardware and software. This course is designed to develop the competencies in computer technology necessary to pass the A+ Certification Exam. **Century/ Chavez**

Accounting with QuickBooks

UC - "g" 871T

Articulated FCC/CCC

Level 3. Accounting is a comprehensive, self-contained, fully-computer integrated one-year course which gives an overview using both manual entry and industry-standard accounting software. Students will learn basic accounting principles and skills to seek entry-level employment and pursue an advanced accounting education. Students will learn how to prepare accounting records for businesses using QuickBooks. Students will create a new business and set up company files allowing them to gain hands-on experience in processing customer transactions, vendor transactions, bank reconciliations, reports, and how to customize QuickBooks. **Valley**

Aerospace Engineering (PLTW)

UC-"g" 672T/TF/TS

Level 3. This year long course expands students' learning in the fundamentals of atmospheric and space flight. Student instruction includes the physics of flight and the design of an airfoil, propulsion systems, and rockets. The foundations of orbital mechanics are discussed and student competency is demonstrated through project based learning (PBL) using industry-standard software. Students will develop skills in coding robotic systems through PBL such as remotely operated vehicles. **Segerstrom**

AP Computer Science Principles

UC-"g" 483L/LF/LS

Level 3. Computer Science Principles AP course provides students with a foundation in computer science concepts and practices so that students learn to reason using computational thinking and critical thinking skills. Students engage in problem-solving and creative aspects of the computer science field by creating products that involve computational process the same way real-world professionals do. By applying the content and skills emphasized in the course, students will engage in rigorous instruction so that they become active and informed citizens in a global and technologically-driven society. **Godinez**

AP Computer Science Principles (PLTW)

UC-"g" 483T/TF/TS

Level 3. This PLTW course is recognized as an endorsed provider of curriculum by the College Board for AP Computer Science using Python® as a primary tool and incorporating multiple platforms and languages for computation, the course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Projects and problems include app development, visualization of data, cybersecurity, and simulation. **Valley**

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Application of Business Technology**UC-“g”****854T/TF/TS****Articulated CCC**

Level 2. Students learn and use the appropriate software and systems to complete skills sets in business. Technology Certification for Business provides students with opportunities to develop 21st century skills and as well as equips them to pursue post-secondary education and advancement in the field. Technology Certification for Business concentrates on Microsoft Office PowerPoint, Excel, and Word. Students will test to earn Microsoft Office Specialist (MOS) Certification. **Century/ Chavez/Lorin/ Godinez/ Saddleback/ Segerstrom**

Art of Animation**UC-“f”****321T/TF/TS****Articulated CCC/SAC**

Level 3. Students learn how to storyboard, write a script, present, and create animations using the principles of animation and basic techniques including staging, timing, and kinetics. Drawing skills, life drawing, storytelling, mechanics of motion and animation camera techniques will be an integral part of the course. **Century/ Godinez/ Santa Ana/ Valley**

Art of Animation II**UC-“f”****322T/TF/TS**

Level 3. This course is designed to broaden and refine the skills and techniques presented in The Art of Animation I and to add advanced computer animation, production and performance skills. The format of classroom instruction will be lecture, demonstration, individual and team-based projects, presentations and hands-on classroom work. **Valley**

Art of Digital Photography**UC-“f”****329T/TF/TS****Articulated CCC/SAC**

Level 3. Introduction to the art and appreciation of digital photography. Students will explore the basic elements of composition and the principles of design including light, movement, and color theory. Combining training in camera operation and image editing with artistic theory, students will learn to visually communicate ideas and creativity. **Godinez/ Saddleback/ Segerstrom**

Art of Graphic Design I**UC-“f”****325A/AF/AS****Articulated CCC/SAC**

Level 2. Students learn about the history and development of graphic design, explore cultural influences and examine it's role in societies from different parts of the world. Study of the aesthetics of art and graphic design will allow students to develop perception and analysis skills that they can employ to critically examine their own work and the work of others. **Century/ Godinez/ Saddleback/ Santa Ana/ Valley**

Art of TV & Video Production**UC- “f”****335T****Articulated OCC**

Level 2. Students will develop and apply knowledge of artistic principles and aesthetics, and acquire technical skills in producing video from concept to finished product. The curriculum leads students to perceive video/film as both an art form and a communication tool reflecting and influencing historical and contemporary culture. Students will produce original work including short video projects that demonstrate understanding of the fundamental aspects of the production process. **Santa Ana**

Art of TV & Video Production - Advanced**UC- “f”****977TF/TS****Articulated OCC**

Level 3. This course provides instruction and training for students interested in careers in the video, broadcast, and film production industries. Students experience both the creative and technical aspects of filmmaking and video production in conjunction with learning about historical and contemporary traditions and conventions. Students will explore different aspects of the media and entertainment industry as it relates to potential career selections. Students achieving competency in this course will be prepared to enter a film or broadcast journalism course of study at the college level or be prepared for entry level employment in those fields. **Santa Ana**

Auto MLR (Maintenance & Light Repair) I**UC-“g”****845T/TF/TS****Articulated FCC/SAC**

Level 2. Auto MLR (Maintenance and Light Repair) I is designed as a beginning automotive technician course that introduces students to automobile service and repair, shop safety, engine repair, automatic transmissions and transaxles, manual drive train

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and axles, suspension and steering, brakes, electrical and electronic systems, heating and air conditioning, and engine performance. This course will also provide students with the opportunity to apply and extend concepts studied in their math and science classes (related to algebra, basic arithmetic, physics, and electrical, computer, and chemical sciences) to the automotive technology industry. **Santa Ana/ Valley/ Extended Learning**

Auto MLR II

UC-“g”

846T

Articulated FCC/SAC

Level 3. This is the second course in the 3-course sequence that prepares students for the Maintenance and Light Repair (MLR) ASE student certification test. Students will demonstrate mastery of more complex tasks and build upon knowledge previously learned. Students will be prepared by the end of the course to begin internships in Auto MRL III. **Santa Ana/ Valley/ Extended Learning**

Auto MLR III

UC-“g”

847T

Internship

Level 3. This is the third course in the 3-course sequence that prepares students for the Maintenance and Light Repair (MLR) ASE Student Certification test. Classroom instruction will be combined with an internship at a local repair facility. The internship will provide students with the required hands-on hours for the MLR certification and the experience to seek employment in the automotive industry or to seek post-secondary automotive education. **Santa Ana/ Valley**

Business Economics & Finance

UC-“g”

858T/TF/TS

Level 3. This course provides instruction in the fundamental micro and macro-economic principles as they relate to business financial activities and outcomes. Students will gain an understanding of how business and the local, national, and international economy interact to produce a profit or loss. Economic, financial, and accounting concepts taught in this course will enable students to understand key elements involved in planning and managing business financial success. **Century/ Valley**

Careers in Education

UC-“g”

861T/TF/TS

Articulated SAC

Level 2. This is a one year course that provides training to students interested in a career in teaching and the art of K-8 instruction. Students will gain insight into the responsibilities of a teacher, child growth and development, safety, principles of effective instruction and assessment. They review grade level skills in Reading, Math and English Language Arts and learn the different methodologies, strategies and materials employed in the elementary classroom. This course will prepare students for entry into college or university teacher training programs. Students will apply what they learn through reflections on observations and through hands on work-site laboratory work where they assist elementary teachers in a variety of instructional support, including tutoring elementary students in reading, writing, and math topics. **Century**

Child Development

UC-“g”

863T

Articulated SAC

Level 3. Course introduces students to history, philosophy and major theories of child growth and development. Students will study the physical, emotional and cognitive aspects of development from conception to early adolescence. Instruction includes the biological, hereditary and environmental influences on development together with methods of supporting and promoting optimum healthy growth. **Century/ Santa Ana/ Segerstrom**

Criminal Justice

UC-“g”

891T

Articulated FCC/SAC

Level 2. Students will investigate the qualifications and requirements for various law enforcement occupations and learn the nature, history and philosophy of law enforcement. Other content area skills include constitutional law, policing issues and trends, court systems, trials, corrections and general aspects of law enforcement. **Godinez/ Santa Ana/ Extended Learning**

Culinary Arts

UC-“g”

893T/TF/TS

Articulated OCC/SAC

Level 2. This is the foundation course for the Culinary Arts pathway. Students will develop basic food preparation, customer service, and restaurant skills. Nutrition, food safety, and sanitation will be mastered. Students will prepare for and complete the ServSafe® Food Handler certification. Students will learn about the Foodservice and Hospitality Industry and explore a variety

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Culinary & Restaurant Management I

UC-“g”

896TF/TS

Articulated OCC/SAC

Level 3. This is the second course in a Food Service and Hospitality Pathway. Students will experience all aspects of operating and managing a foodservice establishment. Through hands-on learning, they will understand safe food handling practices, basic food preparation, accounting and cost control, sanitation and workplace safety. Students will prepare for the ServSafe® Manager certification. Students will also begin their “on-the-job” training experience through Internships, Catering Experience and/ or Competition. **Valley**

Advanced Culinary & Restaurant Management

UC-“g”

897T/TF/TS

Level 3. This is the third course in the Foodservice and Hospitality Pathway where students will experience all aspects of operating and managing a foodservice establishment. Through hands-on learning, they will understand safe food handling practices, advanced food preparation, accounting and cost control, sanitation and workplace safety. In this third-year course, students will continue their “on-the-job” training experience. Upon successful completion of this course which includes certification exams and the completion of 400 hours of internship or volunteer experience, students qualify for receipt of the National Restaurant Association sponsored ProStart Certification. **Valley**

Dental Assistant

UC-“g”

898T

Level 3. This course is designed to prepare students for an entry-level position in a dental office. Students will learn how to prepare the patient, sterilize and disinfect instruments, set up instrument trays, and prepare the materials that will be needed by the dentist during the examination. In addition, students will learn theory and clinical application in dental radiographic, in compliance with the guidelines set forth by the California Board of Dental Examiners. Students must earn either A or B grade to advance. A uniform is required. **Valley/ Extended Learning**

Advanced Dental Assistant

UC-“g”

899T/TF/TS

Internship

Level 3. Students will be placed in a Dental facility to complete their internship course. Students will gain actual experience in the dental field by assisting a dentist. Students will prepare patients, sterilize and disinfect instruments, set up instrument trays, prepare materials and assist the dentist during dental procedures. Additionally, students will practice theory and clinical applications in dental radiographs in compliance with the guidelines set forth by the California Board of Dental Examiners. Students will practice the using bisecting and paralleling x-ray techniques in preparation for their certification. A uniform is required. **Valley/ Extended Learning**

Digital Electronics (PLTW)

675A/AF/AS

Level 3. The Digital Electronics (DE) course exposes students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will analyze, design, and build digital electronic circuits. While implementing these designs, students will continually hone their professional skills, creative abilities, and understanding of the circuit design process. Digital Electronics focus is on understanding and implementing circuit design skills. Building enthusiasm for rigorous exploration of electronics and circuit design is a primary goal of the course. **Santa Ana**

Entrepreneur

913T/TF/TS

Articulated CCC

Level 3. This course provides students with the information needed to start a business operation. Students will learn how to identify a business opportunity, understand business legal structures, small business budgeting, record keeping methods, staffing, marketing and promotion. Instruction will include an introduction to the elements of a business plan including marketing and technology. **Century**

Exploring Computer Science

UC-“g”

459TF/TS

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Level 2. Introduction to the foundations of Computer Science using an inquiry-based, hands-on approach to understand and solving real world computing problems. Instruction includes areas of Human Computer Interaction, Problem Solving, Web Design, Programming, Data Analysis and Robotics. **Century/ Godinez**

Fashion Design & Merchandising

UC-“g”

916R/RF/RS

Articulated SAC

Level 2. Students will study the fundamentals of fashion theory and the evolution of the fashion industry. They will apply the principles and elements of artistic design and color theory as they conceptualize original design ideas in order to develop fashion sketches. Using patterns, as well as an understanding of textiles, they will construct garments in preparation for a fashion showcase. **Santa Ana**

Fashion E-Commerce

UC-“g”

Pending

Dual Enrollment SAC

Level 3. In this course students learn how to create and manage an E-commerce store. They study the operations of an established fashion e-commerce retail business, and apply concepts of merchandising (including buying, pricing, stock control, omni-channel strategies, layout, marketing, and analytical software). Students learn about the evolution of e-commerce, trends in global fashion, the importance of branding, and effective ways to advertise and promote a brand. Ultimately, students will create a website for their business on either a vendor's marketplace or their own platform. **Santa Ana**

Foundations of Law

UC-“g”

864T

Level 3. The Foundations of Law course guides students in the examination of the diverse areas of law, including criminal, civil, constitutional, and international. Students will study the rule of law and how laws are created, enforced, interpreted, and changed. Instruction includes exploration of civil rights issues and the role of advocacy, civics, and the media in our legal system. Students are encouraged to consider exploration, and comparative systems. This course has been approved as a UC general elective. This course is part of the Legal Practices Pathway. **Santa Ana**

Hospital Occupations

UC-“g”

930T

Internship

Level 3. Students will review the essential knowledge and skills that they mastered in the foundation courses and then expand and focus these for application within the Hospital environment by completing an internship at Coastal Community Hospital. Content topics include: Patient Care Skills, Safety and Emergency Procedures, Ethics, and specific skills for specialized Hospital Departments. Cardiopulmonary resuscitation (CPR) card, physical examination, tuberculin test and other inoculations/vaccinations are required for placement at a hospital. Prerequisite: Medical Core/Sports Medicine/Biomedical Technology Courses. **Santa Ana/ Extended Learning**

Human Body Systems (PLTW)

UC-“d”

669A/AF/AS

Level 3. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on MANIKEN[®] skeletal models; use data acquisition software to monitor body functions, such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. **Saddleback**

Introduction to Design 1, 2 (VAPA)

UC-“f”

361T/TF/TS

Level 2. Students will study mechanical, civil, structural, electrical and environmental engineering topics. Engineering problems will be analyzed and student will exhibits through sketches, CAD drawings, rapid prototype models. Scientific and mathematical concepts will be used to explain observations and solutions. Research, report writing, and oral presentations will be fundamental to this course. Engineering related careers and educational pathways will also be explored. **Century**

Introduction to Engineering Design (PLTW)

UC-“g”

667A/AF/AS

Articulated IVC

Level 2. Introduction to Engineering Design (IED) is for students who are interested in design and engineering. Students introduced to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will develop problem-solving skills and apply their knowledge of

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research and design to create solutions. **Century/ Santa Ana/ Segerstrom/ Valley**

Law & Order

UC-“g”

865T

Articulated SAC

Level 3. Students will be introduced to due process and the principles of our judicial system. Students learn the step-by-step process of initiating or defending a lawsuit and will undertake the analyses, preparation and presentation of both civil and criminal trial proceedings. Instruction will include the contents and preparation of a variety of legal documents and statutory filing procedures. **Santa Ana**

Medical Assistant Clinical

UC-“g”

946T/TF/TS

Level 3. Students receive instruction in medical ethics, medical terminology, pharmacology, and anatomy, as well practical experience in performing and assisting in basic lab tests, giving injections, EKG exams, sterilization and other medical procedures and techniques. Students completing level I with either A or B semester grade will be placed in community classroom internship which involves supervised experience in a medical office or clinic. Uniform is required. **Santa Ana/ Valley/ Extended Learning**

Advanced Medical Assistant Clinical

UC-“g”

949T

Internship

Level 3. Students will be placed in a local medical facility for their clinical internship. Prerequisite: MAI earning either A or B semester grade. Uniform is required. **Valley/ Extended Learning**

Medical Assistant Front Office I

UC-“g”

947T

Level 3. Students will further the medical education and training attained in the Medical Core course and apply their knowledge in the field of Medical Assisting Front Office. This course will teach students the skills and attitudes necessary for entry-level employment as Medical Assistants in front office, clerical, health unit and related positions within the healthcare field. Instruction includes office operations, communications, patient reception, scheduling, medical coding, bookkeeping and insurance billing. Essential employability skills covered in the class include personal and interpersonal skills plus career development and employment literacy. **Valley**

Medical Core

UC-“g”

927T/TF/TS

Articulated CCC/SAC

Level 2. This course introduces students to diverse occupations in the medical/health field and to standards required of workers in the field. Medical Core includes instruction in the ethical and legal responsibilities of the healthcare worker, safety, medical terminology, human anatomy and physiology, body systems and mechanics, standard precautions and health and fitness. Students gain practical hands-on experience in Vital Signs, Emergency Medical Care, First Aid and CPR. **Godinez/ Middle College/ Santa Ana/ Valley/ Extended Learning**

Medical Interventions (PLTW)

UC-“d”

670A/AF/AS

Level 3. Students will investigate the variety of interventions involved in the prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. A “How-To” manual for maintaining overall health and homeostasis in the body, the course will explore how to prevent and fight infection, how to screen and evaluate the code in our DNA, how to prevent, diagnose, and treat cancer, and how to prevail when the organs of the body begin to fail. Lifestyle choices and preventive measures are emphasized throughout the course as well as the important role that scientific thinking and engineering design play in the development of interventions of the future. **Saddleback**

Photography I

328U/UF/US

Level 2. Century

Photography II

328V/VF/VS

Level 2. Century

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Principles of Biomedical Sciences(PLTW)**UC-“d”****665A/AF/AS**

Level 2. In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person’s life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. **Saddleback**

Principles of Engineering (PLTW)**UC-“g”****668A/AF/AS****Articulated SAC**

Level 3. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. Students have the opportunity to develop skills and understanding of course concepts through activity/project, and problem-based learning. Prerequisite: Completion of Intro Engineering Design (IED) **Century/ Santa Ana/ Segerstrom/ Valley**

Professional Internship- Business**860T****Articulated SAC
(CE TEACH only)**

Level 3. This practicum and internship course allows the students to apply academic and career readiness skills in a workplace environment. Instruction will combine standards-based classroom instruction with extended on-site industry experience. Students will learn all aspects of Professionalism, and apply 21st Century Skills of Communication, Collaboration, Critical Thinking, Creativity and Problem Solving applied in real world settings. Interested students can prepare to take the WorkKeys National Career Readiness Certificate. Students earn between 5-10 elective credits leading toward high school graduation requirements. **Extended Learning**

Professional Internship- Digital Media Arts**UC-“g”****Pending**

Level 3. Arts, Media, and Entertainment Pathway In this capstone course, students will develop their digital media art skills through review, challenging projects, and an internship in local DMA businesses. The students will work with industry experts to develop a keen eye for art and a deeper understanding of the importance of cultures, belief systems, and traditions in a global economy. **Extended Learning**

Professional Internship- Technology**UC-“g”****Pending**

Level 3. Information and Communication Technology- Software and Systems Development Pathway. This capstone course builds on the Software and Systems Development skills that students have learned in previous courses. In this course, students will create apps, develop a web page, and create a project from the ground up. Throughout the course, students will be researching their "customers" and their needs. Students will practice real-world application of their skills both in the classroom setting and in 90 hours of internship at local companies. Each quarter contains a major project that the students should complete and share with the industry partner where they are doing their internship. This course will further prepare students for industry certifications. **Extended Learning**

Professional Internship- Legal**UC-“g”****Pending**

Level 3. Public Service/ Legal Practices Pathway. In this capstone course, students will expand their understanding of the civil and criminal justice systems through application and study of actual cases, through critical and professional writing, and through an internship at a local legal office or law firm. Students will complete major projects each quarter, and students will complete a Personal Career Plan portfolio that will help them choose their next steps in the Public Services Industry. **Extended Learning**

Sports Medicine**UC-“g”****969S/SF/SS****Articulated IVC/OCC**

Level 3. This competency-based course prepares students for entry-level positions in the sports medicine industry. Included in the course is an introduction to the care, prevention and rehabilitation of athletic injuries. **Godinez/ Segerstrom**

Video Production I**UC-“f”****335Z/ZF/ZS**

Level 2. This course is designed to provide students with the skills necessary to gain entry-level employment at a cable studio,

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video production company or to begin working independently. **Valley**

Video Production II

UC-“f”

978RF/RS

Level 3. This course provides instruction and training for students interested in careers in the video, broadcast, and film production industries. Students experience both the creative and technical aspects of filmmaking and video production in conjunction with learning about historical and contemporary traditions and conventions. Students will explore different aspects of the media and entertainment industry as it relates to potential career selections. Students achieving competency in this course will be prepared to enter a film or broadcast journalism course of study at the college level or be prepared for entry level employment in those fields. **Valley**

Writing for Stage & Screen- Film Academy

UC-“b”

333T/TF/TS

Level 2. Writing for Stage and Screen is designed to provide students a rigorous formal English course integrated with script writing for film and application with digital media projects. Scriptwriting skills will be developed to create meaningful connections between language arts and real life. This integrated course provides an engaging, contextualized learning environment for students to master the fundamental concepts of 9th grade English. Throughout the year, students will develop their portfolio by creating a resume that would be suitable for the film industry. They will create a traditionally formatted resume and a portfolio of their creative work. Using a screenplay that they begin in the first unit, students will add concepts to their script and film footage for a pilot final film in the final unit. **Santa Ana**

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