COLLEGE AND CAREER ADVANTAGE

Career Technical Education

Course Catalog

LAGUNA BEACH UNIFIED SCHOOL DISTRICT

CAPISTRANO UNIFIED SCHOOL DISTRICT

2023 / 2024
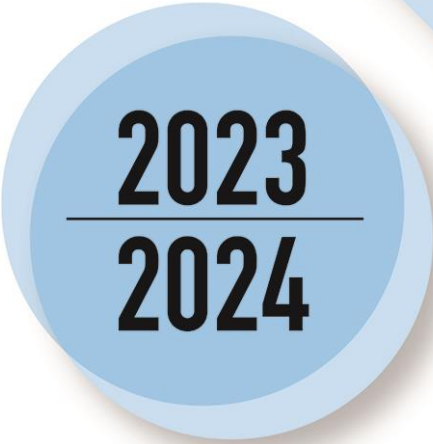
33122 Valle Road
San Juan Capistrano, CA 92675

(949) 234-9464

ccadvantage.org

CCA
COLLEGE AND CAREER ADVANTAGE

COLLEGE AND CAREER ADVANTAGE

33122 Valle Road, San Juan Capistrano, CA 92675

(949) 234-9464

www.ccadvantage.org

Governing Board Members

Mrs. Lisa Davis, **President**

Mrs. Gila Jones, **Vice President/Clerk**

Mrs. Amy Hanacek, **Member**

Mrs. Dee Perry, **Member**

Mrs. Jan Vickers, **Member**

Dr. Paul Weir, **Executive Director**

Kim Thomas, **Director, Instructional Services**

Nicole Berkman, **Director, Student Support Services**

PARTICIPATING DISTRICTS

Capistrano Unified School District

Laguna Beach Unified School District

Catalog cover created by SJHHS Graphic Production Technologies student

College and Career Advantage

Career Technical Education

2023-2024

Table of Contents

Program Information

MISSION STATEMENT
College and Career Advantage provides high quality, relevant and engaging career technical education that prepares students for career and academic success.

WHAT IS CTE?
Career Technical Education (CTE) prepares students with technical, academic and employability skills for success in both college and career. With 15 Industry Sectors, students may choose from 58 pathways leading to industry certifications, postsecondary certificates and degrees. Opportunities with local business and industry partners to participate in internships and gain first-hand work experience, many times leading straight to a career.

WHAT IS CCA?
College and Career Advantage (CCA) is a Joint Partnership of the Capistrano Unified and Laguna Beach Unified School Districts providing high quality, relevant and engaging career technical education across the region that prepares students for career and academic success. With Investigation Labs on every middle school campus, CTE courses on all high school sites and regional after school courses, CCA delivers college and career readiness for all students!

Education Equity

Non-Discrimination Statement:
The Capistrano Unified and Laguna Beach School Districts prohibit discrimination, harassment, intimidation, and bullying based upon actual or perceived gender, gender identity, gender expression, race, ethnicity, color, religion, ancestry, nationality, national origin, ethnic group identification, sex, sexual orientation, marital or parental status, pregnancy, age, physical or mental disability or on the basis of a person's association with a person or group with one or more of these actual or perceived characteristics.

Non-Discrimination Program, Activity, and Club Statement:
The Board of Trustees desires to provide a safe school environment that allows all students equal access and opportunities in the district's academic and other educational support programs, services, and activities. The Board prohibits, at any District school or school activity, unlawful discrimination, including discriminatory harassment, intimidation, and bullying of any student based on the student's actual or perceived race, color, ancestry, national origin, nationality, ethnicity, ethnic group identification, age, religion, marital or parental status, pregnancy, physical or mental disability, sex, sexual orientation, gender, gender identity, or gender expression or association with a person or group with one or more of these actual or perceived characteristics.

Employability skills are taught throughout each course by using Career Preparation Standards which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy. Students are trained how to write a resume, fill out a job application, draft a cover letter, and learn about a variety of interview techniques.

Common Questions

What is Articulation?
Articulated courses offer high school students the opportunity to earn community college credit, high school graduation credit, and bypass the prerequisite course requirement, if applicable, once enrolled at the community college.

For an up-to-date list of current articulated courses, please visit the CCA website at www.ccadvantage.org

What is UC-CSU "a-g" Approved?
Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are project-based, academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing student's oral and listening skills.

What is CTE Honors Weighted GPA?
The UC Admissions office approves the honors weighted GPA for CTE courses that meet the requirements. The course must be a UC approved and transferable course. The CTE Honors Weighted courses can be located under each high site "tab".

How Do I Register?
Students interested in enrolling in a CTE course will need to contact their Counselor or located in the Guidance office of their high school or their Career Guidance Specialist in the College and Career Center. Courses offered during the bell schedule are site specific. Courses offered after school are available to all students in both the Capistrano and Laguna Beach Unified school districts.

IMPORTANT NOTICE

College and Career Advantage does not require fees for high school students to participate in classes. Outside agencies that serve as internship sites may require students to meet certain requirements before starting an internship. Student expenses to fulfill the internship requirements of outside agencies may include TB test, vaccinations and appropriate shoes.

Health Science classes may require practicing procedures on other students and/or patients, both male and female, of different ages and may include the study of reproductive and other systems. Additionally, these classes may require heavy lifting and bending. Participation in these activities are required for a Certificate of Completion and continuation in the Health Sciences Career Pathway

The South Orange County School of the Arts (SOCSA) housed at Dana Hills High School is a visual and performing arts academy for students in the Capistrano Unified School District who have special interests and potential for creativity. It will provide students with intensive training in the arts through a diverse art curriculum, offering comprehensive study in the visual arts, dance, musical theatre, acting, directing, television production and scriptwriting, theatre history, art history, graphic and commercial art, vocal and instrumental music, and communications, and integrated studies in the humanities and sciences.

CTE Pathways

AGRICULTURE & NATURAL RESOURCES
- AGRICULTURAL BUSINESS
- AGRICULTURAL MECHANICS
- AGRISCIENCE
- ANIMAL SCIENCE
- FORESTRY & NATURAL RESOURCES
- ORNAMENTAL HORTICULTURE
- PLANT & SOIL SCIENCE

ARTS, MEDIA & ENTERTAINMENT
- DESIGN, VISUAL & MEDIA ARTS
- PERFORMING ARTS
- PRODUCTION & MANAGERIAL ARTS
- GAME DESIGN & INTEGRATION

BUILDING & CONSTRUCTION TRADES
- CABINETRY, MILLWORK & WOODWORKING
- ENGINEERING & HEAVY CONSTRUCTION
- MECHANICAL SYSTEMS INSTALLATION & REPAIR
- RESIDENTIAL & COMMERCIAL CONSTRUCTION

BUSINESS & FINANCE
- BUSINESS MANAGEMENT
- FINANCIAL SERVICES
- INTERNATIONAL BUSINESS

EDUCATION, CHILD DEVELOPMENT & FAMILY SERVICES
- CHILD DEVELOPMENT
- CONSUMER SERVICES
- EDUCATION
- FAMILY & HUMAN SERVICES

ENERGY, ENVIRONMENT & UTILITIES
- ENERGY & POWER TECHNOLOGY
- ENVIRONMENTAL RESOURCES
- TELECOMMUNICATIONS

ENGINEERING & ARCHITECTURE
- ARCHITECTURAL DESIGN
- ENGINEERING DESIGN
- ENGINEERING TECHNOLOGY
- ENVIRONMENTAL ENGINEERING

FASHION & INTERIOR DESIGN
- FASHION DESIGN & MERCHANDISING
- INTERIOR DESIGN
- PERSONAL SERVICES

HEALTH SCIENCE & MEDICAL TECHNOLOGY
- BIOTECHNOLOGY
- HEALTHCARE ADMINISTRATIVE SERVICES
- HEALTHCARE OPERATIONAL SUPPORT
- MENTAL & BEHAVIORAL HEALTH
- PATIENT CARE
- PUBLIC & COMMUNITY HEALTH

HOSPITALITY, TOURISM & RECREATION
- FOOD SCIENCE, DIETETICS & NUTRITION
- FOOD SERVICE & HOSPITALITY
- HOSPITALITY, TOURISM & RECREATION

INFORMATION & COMMUNICATION TECHNOLOGIES
- GAMES & SIMULATION
- INFORMATION SUPPORT AND SERVICES DEVELOPMENT
- NETWORKING
- SOFTWARE & SYSTEMS

MANUFACTURING & PRODUCT DEVELOPMENT
- GRAPHIC PRODUCTION TECHNOLOGIES
- PRODUCT INNOVATION & DESIGN
- MACHINING & FORMING TECHNOLOGIES
- WELDING & MATERIALS JOINING

MARKETING, SALES & SERVICE
- ENTREPRENEURSHIP/SELF EMPLOYMENT
- MARKETING
- PROFESSIONAL SALES

PUBLIC SERVICES
- EMERGENCY RESPONSE
- LEGAL PRACTICES
- PUBLIC SAFETY

TRANSPORTATION
- OPERATIONS
- STRUCTURAL REPAIR & REFINISHING
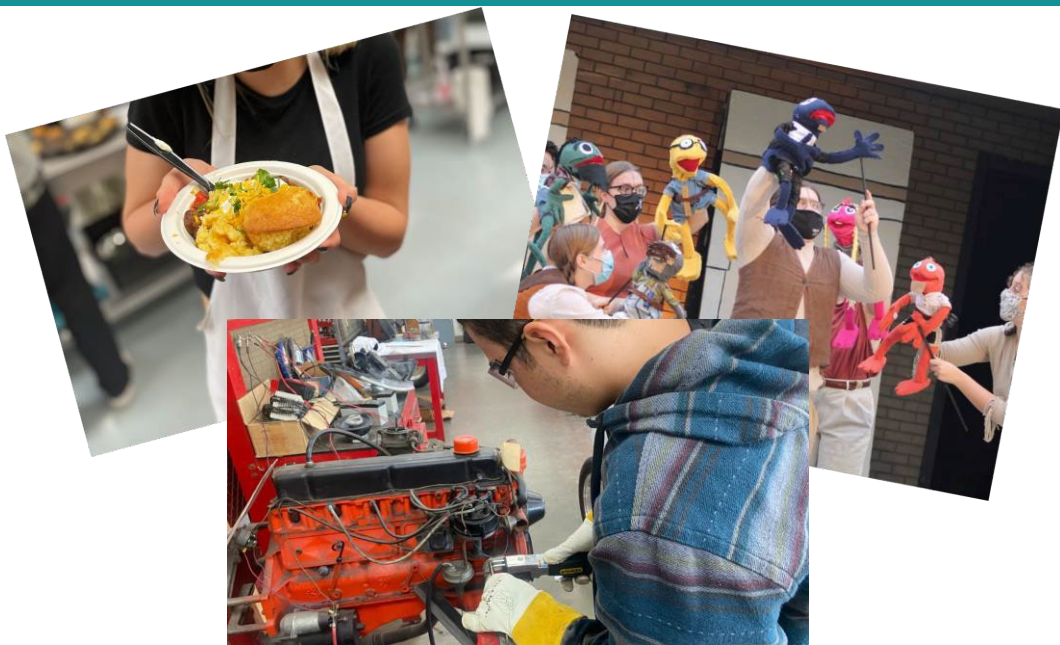- SYSTEM DIAGNOSTICS, SERVICE & REPAIR

ALISO NIGUEL

HIGH SCHOOL

CAREER TECHNICAL EDUCATION COURSES

Offered at ANHS

- Actors Repertory & Advanced
- Architectural Design & Advanced
- Automotive Mechanics Basics
- Automotive Technology
- Biotechnology
- Culinary Arts & Advanced
- Digital Photography
- Forensic Science
- Multimedia Design
- Rapid Prototype
- Sports Medicine
- Stagecraft Basic
- Stagecraft
- Theatrical Production
- TV Broadcast Journalism
- Video Production

For more information connect with your Career Guidance Specialist in the College & Career Center!

COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

Aliso Niguel High School

After School Course Offerings

- Automotive Mechanics
- Automotive Technology
- Aviation Careers
- Business Management & Entrepreneurship
- Cybersecurity
- Dental Assisting
- Emergency Medical Technician
- E-sports
- Fashion Design
- Fire Science
- Lifeguarding
- Medical Assistant
- Medical Core

- Medical Innovation, Research & Entrepreneurship (10-week course)
- Pharmacy Technician Pathway
- Robotics Fundamentals (Level 1)
- Robotics Design & Fabrication (Level 2)
- Robotics System Integration (Level 3)
- Robotics & Autonomous Systems (Level 4)
- Veterinary Technician Pathway

UC a-g CTE Courses

ALISO NIGUEL HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To Aliso Niguel High School Students
a – History/Social Science **b** – English **c** – Mathematics **d** – Laboratory Science **e** – Language other than English **f** – Visual and Performing Arts **g** – College-prep Elective **"d" - Requirement** • Biotechnology • Emergency Medical Technician • Forensic Science • Sports Medicine **"f" – Requirement** • Actors' Repertory • Architectural Design • Architectural Design, Advanced • Culinary Arts • Digital Photography • Fashion Design • Multimedia Design	**"f" – Requirement (continued)** • Rapid Prototype • Stagecraft/ Stagecraft Intro • TV Broadcast Journalism • Video Production **"g" - Requirement** • Automotive Mechanics, Basics • Automotive Technology • Aviation Careers • Business Management/Entrepreneurship • Cybersecurity • Dental Assisting • Esports • Fire Science • Medical Assisting • Medical Core • Medical/Hospital Careers • Medical Innovation, Research & Entrepreneurship • Pharmacy Clerk • Pharmacy Technician • Robotics & Autonomous Systems • Robotics Design & Fabrication • Robotics Fundamentals • Robotics System Integration • Veterinary Technician • Veterinary Technician Advanced

Honors Weighted CTE Courses

ALISO NIGUEL HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional 1.0 GPA points, similar to that of an AP or IB course.

Honors Weighted Courses Available to
Aliso Niguel High School Students

Actors' Repertory
Architectural Design, Advanced
Automotive Technology**
Biotechnology
Business Management/Entrepreneurship*
Digital Photography
Emergency Medical Technician*
Fashion Design*
Forensic Science
Medical Assisting*
Medical Core*
Medical/ Hospital Careers*
Multimedia Design
Rapid Prototype
Robotics Fundamentals*
Robotics Design & Fabrication*
Robotics & System Integration*
Robotics & Autonomous Systems*
Stagecraft
TV Broadcast Journalism Video Production
Video Production, Advanced
Veterinary Technician Advanced*

To Register for Classes
Contact your High School Counselor
or Career Guidance Specialist

For more information contact: COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG

*denotes an After-School class
Please check location
(**)- Course is available both during in and after bell.

Aliso Niguel High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
Actors' Repertory	Fundamentals of Acting – TA 1
Architectural Design	Introduction to CAD – ARCH 50
Auto Mechanics	Automotive Fundamentals – AUTO 100
Automotive Technology	Automotive Fundamentals – AUTO 100
Business Management/Entrepreneurship*	Entrepreneurship - BUS 160
Culinary Arts	Culinary Principals I – FN 101
Digital Photography	Digital Photography I – PHOT 50
Fashion Design*	Intro to Fashion Industry and Careers - FASH 101
Rapid Prototype	3D CAD Solidworks- MFG 204
Sports Medicine	Introduction to Athletic Training – KNES 53
TV Broadcast Journalism	Television Production I – CTVR 124
Video Production	Video Production Basics – CTVR 101

Course Title	Santa Ana College Course Title
Fire Science*	Fire Technology 101

Course Title	Coastline College Course Title
Business Management/Entrepreneurship*	Small Business Operations
Digital Photography	Digital Photography w/photo shop-DGA C131
Medical Core*	Medical Office – C145

Course Title	Irvine Valley College Course Title
Biotechnology	Biotechnology - 70 and 70L

(*) – Denotes an After-School Class. Please check location

Student must earn a grade of "A" or "B" to receive College Credit

ALISO NIGUEL HIGH SCHOOL
CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-Bell	02	G	No	No	None
Veterinary Technician, Adv.	After-Bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Digital Photography	In-Bell	02	F	No	Yes	None
TV Broadcast Journalism	In-Bell	03	F	Yes	No	None
Video Production	In-Bell	03	F	Yes	Yes	None

PERFORMING ARTS PATHWAY (112)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Actors' Repertory	In-Bell	02	F	No	Yes	None
Actors' Repertory, Adv.	In-Bell	03	F	No	Yes	None

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Stagecraft, Basics	In-Bell	02	F	No	No	None
Stagecraft	In-Bell	02	F	No	Yes	None
Theatrical Production	In-Bell	03	F	No	Yes	None

GAME DESIGN AND INTEGRATION PATHWAY (114)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
E-Sports (Year Long)	After-Bell	02	G	No	No	None

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	After-Bell	02	G	Yes	Yes	None

ENGINEERING & DESIGN SECTOR

ARCHITECTURAL DESIGN PATHWAY (150)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Architectural Design	In-Bell	02	F	No	Yes	None
Rapid Prototype	In-Bell	02	F	No	Yes	None
Architectural Design, Adv.	In-Bell	03	F	No	Yes	None

ENGINEERING DESIGN PATHWAY (152)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Robotics Fundamentals	After-Bell	02	G	No	Yes	None
Robotics Design & Fab.	After-Bell	02	G	No	Yes	None
Robotics Systems Integration	After-Bell	03	G	No	Yes	None
Robotics Autonomous Sys.	After-Bell	03	G	No	Yes	None

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-Bell	02	F	Yes	Yes	None
Fashion Design, Advanced	After-Bell	03	F	No	Yes	None

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

BIOTECHNOLOGY PATHWAY (196)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Biotechnology	In-Bell	2 & 3*	D	Yes	Yes	Laboratory Assistant

*this is a 1-year course, but counts as a complete pathway

PATIENT CARE PATHWAY (198)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-Bell	02	G	No	No	CPR, HIPAA, X-Ray License
Medical Assisting	After-Bell	02	G	No	Yes	CPR, HIPAA
Medical Core	After-Bell	02	G	No	Yes	CPR, HIPAA
Pharmacy Clerk	After-Bell	02	G	No	No	CPR, HIPAA
Sports Medicine	In-Bell	02	D	No	No	CPR, HIPAA
Surgical Tech Basics	After-Bell	02	-	No	No	HIPAA
Medical/ Hospital Careers	After-Bell	03	G	No	No	CPR, HIPAA
Pharmacy Technician	After-Bell	03	G	No	No	PT License

HOSPITALITY, TOURISM & RECREATION SECTOR

FOOD SERVICE & HOSPITALITY PATHWAY (201)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Culinary Arts	In-Bell	02	F	Yes	No	Serve Safe
Culinary Arts, Advanced	In-Bell	03	G	Yes	No	Serve Safe

INFORMATION & COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING PATHWAY (172)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Cybersecurity	After-Bell	02	G	No	No	CompTIA

PUBLIC SERVICE SECTOR

PUBLIC SAFETY PATHWAY (232)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Forensic Science	In-Bell	02	D	No	No	None

EMERGENCY RESPONSE PATHWAY (233)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fire Science	After-Bell	02	G	Yes	No	CPR, HIPAA
Lifeguarding	After-Bell	02	N/A	No	No	CPR/First Aid
Emergency Medical Tech.	After-Bell	03	D	No	Yes	CPR, HIPAA, OSHA

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Automotive Mechanics Basics	In-Bell	02	G	No	No	ASE
Automotive Mechanics	After-Bell	02	G	Yes	Yes	ASE
Automotive Technology	In & After-Bell	03	G	Yes	Yes	ASE

OPERATIONS PATHWAY (223)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Aviation Careers	After-Bell	02	G	No	No	None

ALISO NIGUEL HIGH SCHOOL
COURSE DESCRIPTIONS

Actors' Repertory
Instructor: Golden
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted
This advanced course offers the student experience in performance situations. The student will study acting, directing, producing, and dramaturgy through multiple performance experiences. There is a prerequisite of one year of Advanced Drama for this course and/or Drama/Musical Comedy. Admission into the class is by audition only.

AP Computer Science
Instructor: Lee
Credits: 5/semester
UC/CSU: c (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12

The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes programming methodology and procedural abstraction, and includes the study of algorithms, data structures, and data abstraction. Students will learn to code fluently in a well-structured fashion utilizing a subject of the JAVA language. The course includes an introduction to classes and object oriented programming, as well as well-known algorithms and data structures.

Architectural Design
Instructor: Solorzano
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Honors Weighted
This course provides skills required for drafting and computer-assisted drafting (CAD), including architectural and electro/mechanical drawing. Students learn to use media and drafting materials, identify line styles and weights, distinguish different views, read prints, use correct graphic terminology, create lettering and freehand technical sketches,

Architectural Design - Continued

use descriptive geometry in CAD drafting, apply dimensioning and tolerance principles, and create drawings using state-of-the-art CAD software, including single view, orthographic drawings, auxiliary view, pictorial, and assembly drawings. Students apply math skills throughout the course, including measurement and geometry.

Architectural Design, Advanced
Instructor: Solorzano
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted

This course is designed for students who have a passion for architecture and are considering it as a major in college. There will be greater emphasis on craftsmanship and originality in the major projects as well as greater expectation of strengthening drawing skills than in prerequisite courses. Students must be highly motivated and seriously committed to meet the demands of this course and the commitment of time both in and out of the classroom. Emphasis is on the design process of defining the problem, researching, and brainstorming ideas, developing, and testing solutions to presenting and encouraging feedback on the final design. Students explore real-world design problems and challenges within the built environment as individual designers and a collective team. Mathematical, scientific, and artistic processes are applied to abstract and creative solutions for real-world problems, preparing the students both academically and professionally. The impact of design on the human experience is analyzed through the research and study of form and function, social and cultural precedents, environmental conditions and energy efficient materials and methodologies.

Automotive Mechanics, Basics
Instructor: Mack
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits Placement Guidelines: Grades 9 - 12
Automotive Mechanics, Basic provides an overview of the Systems Diagnosis, Service, and Repair Pathway. Students will practice personal, occupational, and environmental safety through the appropriate use of tools, equipment, and work processes. Students will use scientific principles in relation to chemical, mechanical, and physical functions for various engine and vehicle systems while performing maintenance procedures in accordance with manufacturer recommendations. Students will demonstrate the application, operation, maintenance, and diagnosis of engines and supporting subsystems while understanding appropriate business practices. Students will understand the function, principles, and operation of electrical systems as they relate to the automobile, and will explore the function and principles of drivetrains, steering, suspension, and brake systems.

Automotive Technology
Instructor: Mack
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Articulates with Saddleback College. Honors Weighted Comprehensive program that ranges from core standards to advanced training. Students will receive instruction in component identification, fault diagnosis and replacement, precision measuring, rebuilding and repair, adjustment and servicing procedures, automatic transmission/transaxle, brakes, electrical systems, engine performance, engine repair, heating and air conditioning, manual drivetrain and axles, and front end repair.

Biotechnology
Instructor: Zhou
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Industry Certification: Laboratory Assistant
Biological Science graduation credit for CUSD students
Articulates with Irvine Valley College. Honors Weighted
This course introduces students to the cutting edge field of biotechnology. This evolving field applies science and technology to make products, provide services, and improve processes that can enhance human lives. Students will perform scientific tests and experiments, analyze and interpret results, and gain an understanding of biological concepts used in this field.

Culinary Arts
Instructor: Boyle
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement   Guidelines: Grades   9   -   12
Industry Certification: Serve Safe
Articulates with Saddleback College

This class allows students to enhance and expand their culinary skills beyond the basic level learning. Students will learn the ingredients of culinary success and master the art of worldwide cuisine. Topics include menu development, culinary trends, menu analysis, culinary math and costing, and food presentation. Students will participate in menu competitions creating and preparing hors d'oeuvres, salads, soups, entrees, and desserts.

Culinary Arts, Advanced
Instructor: Boyle
Credits: 5/semester
UC/CSU:g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Articulates with Saddleback College

This class allows students to enhance and expand their culinary skills beyond the basic level learning. Students will learn the ingredients of culinary success and master the art of worldwide cuisine. Topics include menu development, culinary trends, menu analysis, culinary math and costing, and food presentation. Students will participate in menu competitions creating and preparing hors d'oeuvres, salads, soups, entrees, and desserts.

Digital Photography
Instructor: Ohnstad
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted

This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Forensic Science
Instructor: Belanto
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Physical Science graduation credit for CUSD students
Honors Weighted

This course covers the collection and analysis of evidence found at a crime scene using a variety of chemical, physical and microscopic examination techniques. Topics include blood-splat analysis, fingerprints, glass and fiber, toxicology, firearms, DNA, entomology, question documents, hair and serology. Students will learn the roles and responsibilities of investigators, coroners, crime scene technicians and forensic scientists.

Rapid Prototype
Instructor: Solorzano
Credits: **5/semester**
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year   -   10   Credits
Honors Weighted
Placement Guidelines: Grades 10-12
This course includes topics on prototype fundamentals, visualization and creation of 3D computer-generated models and their applications in manufacturing, multimedia, communications, and publishing industries. Students are instructed in the principles of 3D modeling using state-of-the-art modeling software. In a lab setting, students practice the strategies and methods commonly used in creating and solving 2D and 3D geometric problems. Students will be introduced to a variety of 3D model applications used in illustration, engineering, design, documentation drawing, entertainment, and animation. In addition to developing a working knowledge of 3D terminology and concepts, students create a variety of 3D geometric models from drawings, sketches, real models and written descriptions.

Sports Medicine
Instructor: McClory
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement   Guidelines: Grades   9   -   12
Industry Certification: CPR and HIPAA
Biological Science graduation credit for CUSD students
Students will be introduced to the care, prevention and rehabilitation of athletic injuries. Also included in the course will be CPR certification, strength and conditioning principles relative to fitness clubs, athletic training rooms, physical therapy clinics, YMCAs, and chiropractic offices. Please see IMPORTANT NOTICE on Page 2.

Stagecraft, Basics
Instructor: Golden
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12

As the first year in the course sequence, this course introduces students to the techniques and processes involved in prop construction, lighting, the setup and operation of sound systems, and the operation of projection equipment. The program develops basic construction techniques for stage property and scenery and affords practice in stage crew work, offering students the opportunity to acquire skills for careers in the entertainment industry. Students will learn to use a variety of production equipment, including lighting fixtures and consoles, electrical cabling, microphones, sound mixers, speakers, digital recorders, rigging hardware, and counterweight fly lines. Students will work as a team to support District performing arts department shows and gain hands-on experience demonstrating their skills in front of a live audience. Integrated throughout the course are Common Core State Standards and Career Technical Education Standards, which include safety, communication, technology, ethics, and career planning skills.

Stagecraft
Instructor: Golden
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Honors Weighted
This course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make-up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Theatrical   **Production**
Instructor: **Golden**
Credits: **5/semester**
Length: Year   -   10   Credits
Placement Guidelines: Grades 9 - 12 This advanced course allows students to delve into the world of theatrical design. Students will research plays, time periods, and concepts; provide sketches of their designs, and execute the designs to the best of their abilities. Students will also gain knowledge in all areas of technical production (lighting, sound, costume, make up, set, stage management, design). Attendance at rehearsals and SOCSA performances will be required. This course may be taken more than once for credit.

TV Broadcast Journalism
Instructor: Ohnstad
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted

Students will study the effects of light, color and scene composition. A video project is the product of creativity, writing, rewriting, collaboration, the use of light, the use of space, camera shots and angles, color, audio and the completion of color and editing. Students will parse the video projects into its creative parts and learn how the video is created and produced. Students will study the impact of film and television on society from a social, economic and political viewpoint. Students will study the impact of ethics of video and film and the emotional side of experiencing media. Students will study how media is perceived as reality and its portrayal of social groups. Students will be required to complete written assignments and attend local film festivals. Students will be required to participate in two film festivals.

Video Production
Instructor: Ohnstad
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course gives students an introduction to the video production industry. Instruction will be given in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Class work will involve participation in individual and group productions in a variety of formats for various audiences. Students will be trained in the use of professional editing and production software and be expected to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

CAPISTRANO VALLEY

HIGH SCHOOL

CAREER TECHNICAL EDUCATION COURSES

Offered at CVHS

- Actors Repertory
- Art of Animation
- Art of Animation Adv.
- Automotive Mech Basic
- Automotive Mechanics
- Automotive Technology
- Dance Performance
- Digital Photography
- Engineering Design
- Engineering Principles
- Engineering Design & Development
- Engineering Manufacturing Tech
- Game Design
- Sports Medicine
- Sports Medicine Adv.
- Stagecraft Basic
- Stagecraft
- Theatrical Production
- TV Broadcast Journalism
- Video Production
- Video Production Adv

For more information connect with your Career Guidance Specialist in the College & Career Center!

COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

Capistrano Valley High School

After School Course Offerings

- Automotive Mechanics
- Automotive Technology
- Aviation Careers
- Business Management & Entrepreneurship
- Cybersecurity
- Dental Assisting
- Emergency Medical Technician
- Esports
- Fashion Design Pathway
- Fire Science
- Lifeguarding
- Medical Assistant
- Medical Core
- Medical/Hospital Careers

- Medical Innovation, Research & Entrepreneurship (10-week course)
- Pharmacy Technician Pathway
- Robotics Fundamentals (Level 1)
- Robotics Design & Fabrication (Level 2)
- Robotics System Integration (Level 3)
- Robotics & Autonomous Systems (Level 4)
- Surgical Technician Basics
- Veterinary Technician Pathway

UC a-g CTE Courses

CAPISTRANO VALLEY HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a- g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To Capistrano Valley High School Students
a – History/Social Science **b – English** **c – Mathematics** **d – Laboratory Science** **e – Language other than English** **f – Visual and Performing Arts** **g – College-prep Elective** **"d" – Requirement** • **Emergency Medical Technician** • **Engineering Principles** • **Sports Medicine** **"f" – Requirement** • **Actors' Repertory** • **Advanced Video Production** • **Art of Animation** • **Art of Animation Advanced** • **Dance Performance** • **Digital Photography** • **Fashion Design** • **Fashion Design Advanced** • **Publishing 1-4 Newspaper** • **Publishing 1-4 Yearbook** • **Stagecraft Basic** • **Stagecraft** • **Theatrical Production** • **TV Broadcast Journalism** • **Video Production** • **Video Production Advanced**	**"g" – Requirement** • **Automotive Mechanics Basic** • **Automotive Mechanics** • **Automotive Technology** • **Aviation Careers** • **Business Management/Entrepreneurship** • **Cybersecurity** • **Dental Assisting** • **Engineering Design** • **Engineering Design and Development** • **Engineering and Manufacturing Technology** • **Esports** • **Fire Science** • **Game Design** • **Medical Assisting** • **Medical Core** • **Medical/Hospital Careers** • **Medical Innovation, Research & Entrepreneurship** • **Pharmacy Clerk** • **Pharmacy Technician** • **Robotics Autonomous Systems** • **Robotics Design and Fabrication** • **Robotics Fundamentals** • **Robotics System Integration** • **Sports Medicine, Advanced** • **Surgical Tech Basics** • **Veterinary Technician** • **Veterinary Technician Advanced**

CAPISTRANO VALLEY HIGH SCHOOL

> Students who earn a grade of "C-" or higher in these classes will receive an additional 1.0 GPA points, like that of an AP or IB course.

Honors Weighted Courses Available to Capistrano Valley High School Students

Actors' Repertory

Art of Animation

Art of Animation Advanced

Automotive Technology**

Business Management/Entrepreneurship*

Digital Photography

Emergency Medical Technician*

Engineering & Manufacturing Technology

Engineering Design

Engineering Design & Development

Engineering Principles

Fashion Design*

Fashion Design Advanced*

Game Design Medical

Assisting* Medical Core*

Medical/ Hospital Careers*

Publishing Design 1 – Newspaper

Publishing Design 1 - Yearbook

Robotics Fundamentals*

Robotics Design & Fabrication*

Robotics System Integration*

Robotics & Autonomous Systems*

Publishing Design 1 – Newspaper

Publishing Design 1 – Yearbook

Sports Medicine, Advanced

Stagecraft

Theatrical Production

TV Broadcast Journalism

Video Production

Video Production Advanced

Veterinary Technician Advanced*

To Register for Classes
Contact your High School Counselor

For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

(*)- Denotes an After-School class Please check location

(**)- Course is available both during bell and after school

Capistrano Valley High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
Art of Animation	Digital Animation – GD 150
Automotive Mechanics	Automotive Fundamentals – AUTO 100
Automotive Technology	Automotive Electrical Systems – AUTO 101
Business Management/Entrepreneurship*	Entrepreneurship – BUS 160
Digital Photography	Digital Photography – PHOT 50
Engineering and Manufacturing Tech.	Introduction to CAD – DR 50
Engineering Principles	3D Computer Aided Design – MFG 204
Fashion Design	Intro to Fashion Careers – FASH 101
Game Design	New Media Production Blogging – JRN 112
Publishing Design 1 – Newspaper	Intro to Comp & Video Game Design – CIMP 230
TV Broadcast Journalism	Television Production I – CVTR 124
Video Production	Video Production Basics – CTVR 101

Course Title	Santa Ana College Course Title
Fire Science*	Fire Technology 101

Course Title	Irvine Valley College Course Title
Engineering Design	Engineering Drawing & Design – DR 101

(*) – Denotes an afterschool class located on a different campus

Student must earn a grade of "A" or "B" to receive college credit

CAPISTRANO VALLEY HIGH SCHOOL CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-bell	02	G	No	No	None
Veterinary Technician, Adv.	After bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Digital Photography	In-bell	02	F	Yes	Yes	None
Publishing Des 1 - Newspaper	In-bell	02	F	Yes	Yes	None
Publishing Des 1 - Yearbook	In-bell	02	F	No	Yes	None
TV Broadcast Journalism	In-bell	03	F	Yes	Yes	None
Video Production	In-bell	03	F	Yes	Yes	None
Video Production, Advanced	In-bell	03	F	No	Yes	None

PERFORMING ARTS PATHWAY (112)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Actors' Repertory	In-bell	02	F	No	Yes	None
Dance Performance	In-bell	02	F	No	No	None

ARTS, MEDIA & ENTERTAINMENT SECTOR (continued)

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Stagecraft Basic	In-bell	02	F	No	No	None
Stagecraft	In-bell	02	F	No	Yes	None
Theatrical Production	In-bell	03	F	No	Yes	None

GAME DESIGN AND INTEGRATION PATHWAY (114)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Art Animation	In-bell	02	F	Yes	Yes	None
E-Sports	After-bell	02	G	No	No	None
Art Animation Advanced	In-bell	03	F	No	Yes	None
Game Design	In-bell	03	F	Yes	Yes	None

ENGINEERING & DESIGN SECTOR

ENGINEERING DESIGN PATHWAY (152)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Engineering Design	In-bell	02	G	Yes	Yes	None
Engineering Principles	In-bell	02	D	Yes	Yes	Solidworks
Robotics Fundamentals	After-bell	02	G	No	Yes	None
Robotics Design & Fab.	After-bell	02	G	No	Yes	None
Robotics Systems Integration	After-bell	02	G	No	Yes	None
Engineering Design & Dev.	In-bell	03	G	No	Yes	None
Engineering Mfg. Technology	In-bell	03	G	Yes	Yes	None
Robotics Autonomous Sys.	After-bell	03	G	No	Yes	None

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-bell	02	F	Yes	Yes	None
Fashion Design Advanced	After-bell	03	F	No	Yes	None

INFORMATION AND COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING (172)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Cybersecurity	After-bell	02	G	No	No	CompTIA

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	After-bell	02	G	Yes	Yes	None

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

PATIENT CARE PATHWAY (198)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-bell	02	G	No	No	CPR/HIPAA/X-Ray License
Medical Core	After-bell	02	G	No	Yes	CPR/HIPAA
Medical Innov, Resrch & Ent	After-bell	02	G	No	No	None
Pharmacy Clerk	After-bell	02	G	No	No	CPR/HIPAA
Sports Medicine	In-bell	02	D	No	No	CPR/HIPAA
Surgical Tech Basic	After-bell	02	G	No	No	HIPAA
Medical Assisting	After-bell	03	G	No	Yes	CPR/HIPAA
Medical/Hospital Careers	After-bell	03	G	No	Yes	CPR/HIPAA
Pharmacy Technician	After-bell	03	G	No	No	CPR/HIPAA/PT License
Sports Medicine Adv	In-bell	03	G	No	Yes	None

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Auto Mechanics Basic	In-bell	02	G	No	No	ASE
Auto Mechanics	In/After-bell	03	G	Yes	No	ASE
Automotive Technology	In/After-bell	03	G	Yes	Yes	ASE

TRANSPORTATION SECTOR (continued)

OPERATIONS PATHWAY (223)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Aviation Careers	After-bell	02	G	No	No	None

PUBLIC SERVICES SECTOR

EMERGENCY RESPONSE PATHWAY (233)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fire Science	After-bell	02	G	Yes	No	CPR/HIPAA
Lifeguarding	After-bell	02	No	No	No	CPR/First Aid/Lifeguarding
Emergency Medical Tech.	After-bell	03	D	No	Yes	CPR/HIPAA/OSHA

CAPISTRANO VALLEY HIGH SCHOOL
COURSE DESCRIPTIONS

Actors Repertory
Instructor: Tucker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted
This advanced course offers the student experience in performance situations. The student will study acting, directing, producing, and dramaturgy through multiple performance experiences. There is a prerequisite of one year of Advanced Drama for this course and/or Drama/Musical Comedy. Admission into the class is by audition only.

Art of Animation
Instructor: Baker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course prepares students for entry-level positions in the fields of animation. Students learn how to plot, script, storyboard, present, and create animations using the principles of animation and basic techniques including staging, timing, mechanics and kinetics. Drawing skills, life drawing, storytelling, mechanics of motion, and animation camera techniques will be an integral part of the course. Integrated throughout the course are Career Preparation Standards, which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy.

Art of Animation Advanced
Instructor: Baker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
Art of Animation, Advanced is a capstone course that provides advanced instruction on the fundamental Principles of Animation within the structure of the film and animation pipeline. Topics covered in the course include figure drawing, the Principles of Animation, character design and rigging, storyboarding, advanced character animation, and film editing. Students in this course expand upon animation and filmmaking skills in order to make original short films. This course emphasizes the mechanics of movement

Art of Animation Advanced - Continued

in animation, animation principles related to physics and weight characteristics, engaging storytelling, visual development, and film creation. The culminating task in this course is a digital portfolio that highlights the artist's most accomplished still and moving work throughout the course.

Automotive Mechanics, Basic
Instructor: Sullivan
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits Placement Guidelines: Grades 9 - 12
Automotive Mechanics, Basic provides an overview of the Systems Diagnosis, Service, and Repair Pathway. Students will practice personal, occupational, and environmental safety through the appropriate use of tools, equipment, and work processes. Students will use scientific principles in relation to chemical, mechanical, and physical functions for various engine and vehicle systems while performing maintenance procedures in accordance with manufacturer recommendations. Students will demonstrate the application, operation, maintenance, and diagnosis of engines and supporting subsystems while understanding appropriate business practices. Students will understand the function, principles, and operation of electrical systems as they relate to the automobile, and will explore the function and principles of drivetrains, steering, suspension, and brake systems.

Automotive Mechanics
Instructor: Sullivan
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
This course covers basic powertrain components such as clutches, transmissions (standard and automatic), drive lines, engines, and differentials. Brakes, steering, tires, shock absorbers, and other chassis components are also studied in detail.

Automotive Technology
Instructor: Sullivan
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Articulates with Saddleback College; Honors Weighted
Comprehensive program that ranges from core standards to advanced training. Students will receive instruction in component identification, fault diagnosis and replacement, precision measuring, rebuilding and repair, adjustment and servicing procedures, automatic transmission/transaxle, brakes, electrical systems, engine performance, engine repair, heating and air conditioning, manual drivetrain and axles, and front end repair.

Dance Performance
Instructor: Salter
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
P.E. or Fine Arts graduation credit for CUSD students
This two-semester course covers beginning levels of dance, including, but not limited to, jazz, modern, and ballet. Students will be introduced to dance conditioning, dance history, nutrition, injury prevention, and elements of choreography. Students are instructed in the fundamentals of working and performing in a professional dance company.

Digital Photography
Instructor: McElfish
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College; Honors Weighted
This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Engineering Design
Instructor: Eves
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Saddleback College; Honors Weighted
This introductory course provides learning opportunities for students interested in preparing for careers in design and production in the Engineering field. Engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science, and mathematic concepts and skills to solve engineering design problems and develop innovative designs.

Engineering Design & Development
Instructor: Franklin
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
Advanced course in the Engineering Technology pathway, focusing on specialized concepts and industries that require post-secondary training in the design, production, or maintenance of mechanical, electrical, electronic or electromechanical products and systems.

Engineering Manufacturing Technology
Instructor: Eves
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Saddleback College; Honors Weighted
In this course, engineering scope, content, and professional practices are presented through practical applications. Students in engineering teams apply technology, science and mathematics concepts and skills to solve engineering design problems and develop innovative design. Students research, develop, test, and analyze engineering designs using criteria such as design effectiveness, public safety, human factors, and ethics. This course is an essential experience for students who are interested in technology, innovation, design and engineering.

Engineering Principles
Instructor: Franklin
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Saddleback College; Honors Weighted
This introductory course will provide learning opportunities for students interested in preparing for careers in the design and production of visual communications and other areas in the engineering field. The students learn the design process in order to plan, prepare, and interpret drawings and models through traditional drafting or computer aided drafting (CAD) techniques.

Game Design
Instructor: Baker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback; Honors Weighted
This is an introductory course into the growing field of Video Game Design. Students will learn the basic concepts of game design, together with a study of the technologies, tools and languages. Instruction will include hands-on experiences with 2D & 3D modeling and animation.

Publishing Design – Newspaper 1
Instructor: Harrington
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Publishing Design - Newspaper is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities.

Publishing Design – Yearbook 1
Instructor: Harrington
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
Publishing Design - Yearbook is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities

Sports Medicine
Instructor: Cleek-Geha
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Biological Science graduation credit for CUSD students
Students will be introduced to the care, prevention and rehabilitation of athletic injuries. Also included in the course will be CPR certification, strength and conditioning principles relative to fitness clubs, athletic training rooms, physical therapy clinics, YMCAs, and chiropractic offices. Please see IMPORTANT NOTICE on Page 2.

Sports Medicine, Advanced
Instructor: Cleek-Geha
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
Sports Medicine, Advanced is the capstone course for the Health Science and Medical Technology industry sector, patient care pathway. This advanced course is a one-year, lecture-laboratory science elective designed to provide a challenging academic experience and hands-on field experience involved with the rapidly growing field of Sports Medicine. Sports Medicine is a multidisciplinary approach for those involved in sports, involving a variety of professionals, such as physicians, physical therapist, certified athletic trainers, strength and conditioning specialist, and nutritionists. Technical instruction includes orientation, safety and infection control, communication and interpersonal skills, academic proficiency, and employability skills. Emphasis is placed on: ethical and legal considerations, pharmacology, sports and therapeutic equipment, nutrition and weight management, infection control, assessment of vital signs, basic life support (including AED and CPR), soft tissue injuries, injuries to the lower and upper extremities, injuries to the head and spine, injuries to the chest and abdomen, environmental conditions, medical conditions, taping and bracing, therapeutic modalities, and physical rehabilitation. Please see IMPORTANT NOTICE on Page 2.

Stagecraft, Basic
Instructor: Tucker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
This course introduces the student to all areas of theater practice except acting. The student becomes knowledgeable in analyzing set design, color, lighting, costumes, and stage make- up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Stagecraft
Instructor: Tucker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Honors Weighted
This course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make-up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Theatrical Production
Instructor: Tucker
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
This advanced course allows students to delve into the world of theatrical design. Students will research plays, time periods, and concepts; provide sketches of their designs, and execute the designs to the best of their abilities. Students will also gain knowledge in all areas of technical production (lighting, sound, costume, make up, set, stage management, design). Attendance at rehearsals and SOCSA performances will be required. This course may be taken more than once for credit.

TV Broadcast Journalism
Instructor: Landino
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Students will study the effects of light, color and scene composition. A video project is the product of creativity, writing, rewriting, collaboration, the use of light, the use of space, camera shots and angles, color, audio and the completion of color and editing. Students will parse the video projects into its creative parts and learn how the video is created and produced. Students will study the impact of film and television on society from a social, economic and political viewpoint. Students will study the impact of ethics of video and film and the emotional side of experiencing media. Students will study how media is perceived as reality and its portrayal of social groups. Students will be required to complete written assignments and attend local film festivals. Students will be required to participate in two film festivals.

Video Production
Instructor: Landino
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course introduces the video production industry. Instruction in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Class work will involve participation in individual and group productions in a variety of formats for various audiences. Students are trained in the use of professional editing and production software and be expected to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

Video Production, Advanced
Instructor: Landino
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This project-based course explores the use of video as a marketing tool. Students will create a variety of video content, including public service announcements, commercials and promotional spots. Projects will be geared towards increasing sales, recognition and awareness of brands, products and services. Coursework includes the study of project development and design along with effective communication skills while working with various clients within the school community. Emphasis will be on producing high-quality, professional video, through practicing effective composition, lighting and cinematography.

DANA HILLS

HIGH SCHOOL

Offered at DHHS

- Biotechnology
- Career Tech Skills Lab
- Culinary Arts
- Digital Media Arts
- Forensic Science
- HMO Academy
- Multimedia Design
- Hotel & Hospitality Careers
- SOCSA

  - Actors' Repertory
  - Dance
  - Digital Photography
  - Stagecraft Pathway
  - Theatrical Production

- Sports Medicine Pathway
- Video Production Pathway

To register for classes contact your High School Counselor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

Dana Hills High School

After School Course Offerings

- Automotive Mechanics
- Automotive Technology
- Aviation Careers
- Business Management & Entrepreneurship
- Culinary Hotel/ Hospitality
- Cybersecurity
- Dental Assisting
- Emergency Medical Technician
- Fashion Design
- Fire Science
- Lifeguarding
- Medical Assistant
- Medical Core

- Medical Innovation, Research & Entrepreneurship Medical/Hospital
- Careers Pharmacy Technician
- Pathway Robotics
- Fundamentals (Level 1) Robotics Design &
- Fabrication (Level 2) Robotics System Integration (Level 3)
- Robotics & Autonomous Systems (Level 4) Veterinary Technician Pathway

CAPISTRANO UNIFIED SCHOOL DISTRICT

UC a-g CTE Courses

DANA HILLS HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for admittance to the University of California (UC) and California State University (CSU) systems. These courses are academically challenging, involve substantial reading, writing, problem-solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To Dana Hills High School Students
a – History/Social Science **b – English** **c – Mathematics** **d – Laboratory Science** **e – Language other than English** **f – Visual and Performing Arts** **g – College-prep Elective** **"d" – Laboratory Science** • **Biotechnology** • **Emergency Medical Technician** • **Forensic Science** • **Sports Medicine** **"f" – Visual & Performing Arts** • **Actors Repertory - SOCSA** • **Actors Rep. Adv. - SOCSA** • **Commercial Music - SOCSA** • **Culinary Arts** • **Dance Production - SOCSA** • **Digital Media Art** • **Digital Photography-SOCSA** • **Fashion Design** • **Fashion Design, Advanced** • **Multimedia Design-SOCSA** • **Publishing 1-4 Newspaper** • **Publishing 1-4 Yearbook** • **Sound Engineering** • **Stagecraft Basics – SOCSA** • **Stagecraft – SOCSA** • **Theater Performer - SOCSA**	**"f" – Visual & Performing Arts** • **Video Production** • **Video Production, Advanced** **"g" – College Preparatory Elective** • **Automotive Mechanics** • **Automotive Technology** • **Aviation Careers** • **Business Management/Entrepreneurship** • **Culinary Arts, Advanced** • **Cybersecurity** • **Dental Assisting** • **E-sports** • **Fire Science** • **Medical Assisting** • **Medical Core** • **Medical Core, HMO** • **Medical/Hospital Careers** • **Medical/Hospital Careers, HMO** • **Medical Innovation, Research, & Entrepreneurship** • **Pharmacy Clerk** • **Pharmacy Technician** • **Robotics Fundamentals (1)** • **Robotics Design & Fabrication (2)** • **Robotics System Integration (3)** • **Robotics & Autonomous Systems (4)** • **Sports Medicine, Advanced** • **Veterinary Technician** • **Veterinary Technician, Advanced**

DANA HILLS HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional point towards their GPA calculation, similar to that of an AP or Honors course.

Honors Weighted Courses Available to
Dana Hills High School Students

Actors Repertory
Automotive Technology*
Biotechnology
Business Management/Entrepreneurship*
Commercial Music
Culinary Arts, Advanced
Digital Photography
Emergency Medical Technician*
Fashion Design*
Fashion Design, Advanced
Forensic Science
Medical Assisting*
Medical Core**
Medical/ Hospital Careers**
Multi Media Design
Publishing – Newspaper (Levels 1-4)
Publishing - Yearbook (Levels 1-4)
Robotics Fundamentals*
Robotics Design & Fabrication*
Robotics System Integration*
Robotics & Autonomous Systems*
Sound Engineering
Sports Medicine, Advanced
Stagecraft
Theater Performer
Theatrical Production
Video Production
Video Production, Advanced
Veterinary Technician Advanced*

To register for these courses, contact your high school counselor.
For more information, contact College & Career Advantage: www.ccadvantage.org

(*) Denotes an after-school class; please check location
(**) Course is available both in-bell and after-school

Dana Hills High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
Actors' Repertory, SOCSA	Acting – TA I
AP Studio Art & 2D Design	Digital Photography I – PHOT 50
Automotive Mechanics*	Automotive Fundamentals -AUTO 100
Automotive Technology*	Automotive Fundamentals -AUTO 100
Business Mgmt/Entrepreneurship*	Entrepreneurship - BUS 160
Culinary Arts	Culinary Principles I – FN 240
Culinary Arts, Advanced	Culinary Principles I – FN 101
Digital Photography, SOCSA	Digital Photography I – PHOT 50
Fashion Design*	Intro Fashion Careers – FASH 101
Multimedia Design, SOCSA	Intro to Computer Graphics, GD 147
Sports Medicine	Introduction to Athletic Training – KNES 53
Video Production	Video Production Basics - CTVR 101

Course Title	Santa Ana College Course Title
Fire Science*	Fire Technology 101

Course Title	Coastline College Course Title
Business Mgmt/Entrepreneurship*	Small Business Operations
Digital Photography	Digital Photography w/Photoshop-DGA C131
Medical Core	Medical Office C145

Course Title	Irvine Valley College Course Title
Biotechnology	Biotechnology - 70 and 70L

(*) – Denotes an After-School Class located on a different campus

Student must earn a grade of "A" or "B" to receive College Credit

DANA HILLS HIGH SCHOOL
CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-Bell	02	G	No	No	None
Veterinary Technician, Adv.	After-Bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Digital Media Art	In-Bell	02	F	No	No	None
Digital Photography, SOCSA	In-Bell	02	F	Yes	Yes	None
MultiMedia Design, SOCSA	In-Bell	02	F	Yes	Yes	None
Publishing 1, Newspaper	In-Bell	02	F	Yes	Yes	None
Publishing 2, Newspaper	In-Bell	02	F	No	Yes	None
Publishing 3, Newspaper	In-Bell	02	F	No	Yes	None
Publishing 1, Yearbook	In-Bell	02	F	No	Yes	None
Publishing 2, Yearbook	In-Bell	02	F	No	Yes	None
Publishing 3, Yearbook	In-Bell	02	F	No	Yes	None
Sound Engineering	In-Bell	02	F	Yes	Yes	None
Publishing 4, Newspaper	In-Bell	03	F	No	Yes	None
Publishing 4, Yearbook	In-Bell	03	F	No	Yes	None
Video Production	In-Bell	03	F	Yes	Yes	None
Video Production, Advanced	In-Bell	03	F	No	Yes	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **
Revised 5.12.2023

PERFORMING ARTS PATHWAY (112)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Actors Repertory, SOCSA	In-Bell	02	F	No	Yes	None
Commercial Music, SOCSA	In-Bell	02	F	Yes	Yes	None
Fall/Spring Performance	After-Bell	02	F	No	Yes	None
Actors Rep., Adv., SOCSA	In-Bell	03	F	No	No	None
Dance Production, SOCSA	In-Bell	03	F	No	No	None
Theater Performer	After-Bell	03	F	No	Yes	None

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Stagecraft Basics, SOCSA	In-Bell	02	F	No	No	None
Stagecraft, SOCSA	In-Bell	02	F	No	Yes	None
Theatrical Production, SOCSA	In-Bell	03	F	No	Yes	None

GAME DESIGN & INTEGRATION PATHWAY (114)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
E-Sports	After-Bell	02	G	No	No	None

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	After-Bell	02	G	Yes	Yes	None

ENGINEERING & DESIGN SECTOR

ENGINEERING DESIGN PATHWAY (152)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Robotics Fundamentals (1)	After-Bell	02	G	No	Yes	None
Robotics Design & Fab. (2)	After-Bell	02	G	No	Yes	None
Robotics Systems Integrt (3)	After-Bell	02	G	No	Yes	None
Robotics Autonomous Sys (4)	After-Bell	03	G	No	Yes	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **
Revised 5.12.2023

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-Bell	02	F	Yes	Yes	None
Fashion Design Advanced	After-Bell	03	F	No	Yes	None

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

BIOTECHNOLOGY PATHWAY (196)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Biotechnology	In-Bell	2 & 3*	D	Yes	Yes	Laboratory Assistant

*this is a 1-year course, but counts as complete pathway

PATIENT CARE PATHWAY (198)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-Bell	02	G	No	No	CPR; HIPAA; X-ray license
Medical Core HMO	In-Bell	02	G	No	Yes	CPR; HIPAA
Medical Core	After-Bell	02	G	No	Yes	CPR; HIPAA
Medical Innovation (MIRE)	After-Bell	02	G	No	No	None
Pharmacy Clerk	After-Bell	02	G	No	No	CPR; HIPAA
Sports Medicine	In-Bell	02	D	Yes	No	CPR; HIPAA
Surgical Tech, Basics	After-Bell	02	No	No	No	HIPAA
Medical Assisting	After-Bell	03	G	No	Yes	CPR; HIPAA
Medical/Hosp Careers, HMO	In-Bell	03	G	No	Yes	CPR; HIPAA
Medical/Hospital Careers	After-Bell	03	G	No	Yes	CPR; HIPAA
Pharmacy Technician	After-Bell	03	G	No	No	PT license
Sports Medicine, Advanced	In-Bell	03	G	No	Yes	None

HOSPITALITY, TOURISM & RECREATION SECTOR

FOOD SERVICE & HOSPITALITY PATHWAY (201)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Culinary Arts	In-Bell	02	F	Yes	No	Serve Safe
Culinary Arts, Advanced	In-Bell	03	G	Yes	Yes	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **
Revised 5.12.2023

INFORMATION & COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING PATHWAY (172)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
CyberSecurity	After-Bell	02	G	No	No	CompTIA

MANUFACTURING AND PRODUCT DEVELOPMENT SECTOR

MULTIPLE PATHWAYS (999)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Career Tech Skills Lab	In-Bell	01	No	No	No	None

PUBLIC SERVICE SECTOR

PUBLIC SAFETY PATHWAY (232)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Forensic Science	In-Bell	02	D	No	Yes	None

EMERGENCY RESPONSE PATHWAY (233)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Fire Science	After-Bell	02	G	Yes	No	CPR; HIPAA
Lifeguarding	After-Bell	02	No	No	No	CPR; First Aid; Lifeguard
Emergency Medical Tech.	After-Bell	03	D	No	Yes	CPR; HIPAA; OSHA

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Auto Mechanics	After-Bell	02	G	No	No	ASE
Automotive Technology	After-Bell	03	G	Yes	Yes	ASE

OPERATIONS PATHWAY (223)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Aviation Careers	After-Bell	02	G	No	No	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. ** Revised 5.12.2023

DANA HILLS HIGH SCHOOL
COURSE DESCRIPTIONS

Actors Repertory, SOCSA
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This advanced course offers the student experience in performance situations. The student will study acting, directing, producing, and dramaturgy through multiple performance experiences. There is a prerequisite of one year of Advanced Drama for this course and/or Drama/Musical Comedy. Admission into the class is by audition only.

Biotechnology
Instructor: Akintade
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Biological Science graduation credit for CUSD students
Articulates with Irvine Valley College; Honors Weighted
This course introduces students to the innovative field of biotechnology. This evolving field applies science and technology to make products, provide services, and improve processes that can enhance human lives. Students will perform scientific tests and experiments, analyze and interpret results, and gain an understanding of biological concepts used in this field.

Career Tech Skills Lab
Instructor: Tyson
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
This course allows students to investigate careers and innovative technology used in high-demand employment sectors. Students will spend time utilizing these exciting modules to complete project and work based learning activities that incorporate STEM (Science, Technology, Engineering, and Math) concepts. Each module includes use of equipment such as 3D Printers, Robotic Arms, CNC machinery, Laser Engravers, welding etc. This course will assist students in planning for college and career pathways throughout high school and college.

Commercial Music
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This course introduces the student to concepts, techniques, and terminology of music technology through digital recording projects. The student will gain experience with current hardware and software for multitrack recording, sequencing, synthesis, music for visual media, and music performance. It is also designed as an introduction to music fundamentals and piano/keyboard skills.

Culinary Arts
Instructor: Boyle
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College
Introduces students into the world of culinary arts and hospitality management. Basic communication skills, safety and sanitation, food preparation, meal planning, and other topics are taught in this beginning course. Students learn to properly prepare and present a variety of cuisines.

Culinary Arts, Advanced
Instructor: Boyle
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Articulates with Saddleback College; Honors Weighted
This is the capstone course for the culinary pathway, and the class allows students to enhance and expand their culinary skills beyond the basic level learning. Students will learn the ingredients of culinary success and master the art of worldwide cuisine. Topics include menu development, culinary trends, menu analysis, culinary math and costing, and food presentation. Students will participate in menu competitions creating and preparing hors d'oeuvres, salads, soups, entrees, and desserts.

Dance Production, SOCSA
Instructor: Lee
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD
This is a beginner competency-based course that trains students in the classical and contemporary genre and in the fundamentals of working and performing in a professional dance company. Students will learn, rehearse, and perform routines for school dance productions each semester starting in their freshman year. Admission into this course is by audition only.

Digital Media Art
Instructor: Tyson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD
This one-year course is designed for students interested in digital media arts. Students will learn the specialized vocabulary of the television and film industry and use it to express themselves clearly and concisely. Students will be actively involved in all aspects of video production from visualization/storyboarding, composing an outline proposal, scriptwriting, lighting, digital camera operations, directing, and editing. The completed project will be a video product based on their script. Students will also write and produce live television shows in a variety of formats. Historical and contemporary examples of film/video (classic and contemporary films, movie trailers, news, documentary, commercials and music videos) will be studied and analyzed using a variety of media resources, including Internet. Students will study the impact of film and television on society from a social, economic, and political viewpoint.

Digital Photography, SOCSA
Instructor: Hribar-Kelly
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Forensic Science
Instructor: Akintade
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Physical Science graduation credit for CUSD students
Honors Weighted
This course covers the collection and analysis of evidence found at a crime scene using a variety of chemical, physical and microscopic examination techniques. Topics include blood-splat analysis, fingerprints, glass and fiber, toxicology, firearms, DNA, entomology, question documents, hair and serology. Students will learn the roles and responsibilities of investigators, coroners, crime scene technicians and forensic scientists.

Medical/Hospital Careers - HMO
Instructor: Garcia/Wingen
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Biological Science graduation credit for CUSD students
Honors Weighted
This is a capstone course for students in the HMO program, designed to teach the fundamental skills necessary for both administrative and clerical duties in a physician's office, hospital, or medical clinic. Students will learn and practice skills required for Medical Assistants through core curriculum and simulated clinical exercises, including the ability to prepare patients for examinations, treatments, perform a variety of standard laboratory procedures, assist with minor surgical procedures, and maintain patient health records. A clinic internship is required to receive the Medical Assistant certificate. CPR and First Aid certifications are included in this course and are awarded based on competency examination.

Medical Core - HMO
Instructor: Garcia
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Health graduation credit for CUSD students
Honors Weighted
Medical Core is an introductory course for students in the HMO program, intended to give the student a chance to explore the healthcare industry and the possible career paths within the industry. This course is a prerequisite for the majority of health career courses. The course is centered on the language of healthcare (Medical Terminology) through the study of anatomy and physiology. Emphasis is on providing students with a thorough understanding of body systems and their interrelationships.

Multimedia Design, SOCSA
Instructor: Hribar-Kelly
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
The primary focus of the course is given to directing students in the active creation of original artistic designs, digital illustrations and graphic media, these are creative projects and exercises much like that of any other visual arts course. The students will learn how to create artwork that then can be produced in different mediums. Technical training is integrated into stages of each design assignment with the outcome depending on the continued successful uptake of these skills; this includes Adobe Photoshop, Illustrator, InDesign, and CorelDraw. Demonstrations of specific tools, methods of achieving certain results, and basic best practices are given for each assignment. This course is articulated with Saddleback College and students have the potential to earn college credit.

Publishing Design - Newspaper
Instructor: Sampson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Publishing Design, Newspaper is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities.

Publishing Design - Yearbook
Instructor: Sampson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Honors Weighted
Publishing Design, Yearbook is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting

Publishing Design - Yearbook - Continued
event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities

Sound Engineering
Instructor: Tyson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This course is a hands-on, project-based exploration of audio, music and sound recording. Students will learn about the nature of sound and how to accurately record and manipulate it. Using desktop computers with industry-standard software, students will work individually and in groups to produce a variety of projects, including loop-based music compositions, voice-overs, video soundtracks, digitizing analog sources, and podcasts. Topics include: active listening, audio equipment, understanding digital audio, multitrack recording, editing, mixing and mastering.

Sports Medicine
Instructor: Nikolenko
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Biological Science graduation credit for CUSD students
Articulates with Saddleback College
Students will be introduced to the care, prevention and rehabilitation of athletic injuries. Also included in the course will be CPR certification, strength and conditioning principles relative to fitness clubs, athletic training rooms, physical therapy clinics, YMCAs, and chiropractic offices.

Sports Medicine, Advanced
Instructor: Nikolenko
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Biological Science graduation credit for CUSD students
Honors Weighted
Sports Medicine, Advanced is a capstone course for the Health Science and Medical Technology industry sector, patient care pathway. This advanced course is a one-year, lecture-laboratory science elective designed to provide a challenging academic experience and hands-on field experience involved with the rapidly growing field of Sports Medicine. Sports Medicine is a multidisciplinary approach for those involved in sports, involving a

Sports Medicine, Advanced - Continued
variety of professionals, such as physicians, physical therapist, certified athletic trainers, strength and conditioning specialist, and nutritionists. Technical instruction includes orientation, safety and infection control, communication and interpersonal skills, academic proficiency, and employability skills. Emphasis is placed on ethical and legal considerations, pharmacology, sports and therapeutic equipment, nutrition and weight management, infection control, assessment of vital signs, basic life support (including AED and CPR), soft tissue injuries, injuries to the lower and upper extremities, injuries to the head and spine, injuries to the chest and abdomen, environmental conditions, medical conditions, taping and bracing, therapeutic modalities, and physical rehabilitation.

Stagecraft, SOCSA
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
As the second level of the course sequence, this course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make- up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Stagecraft Basics, SOCSA
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
As the first year in the course sequence, this course introduces students to the techniques and processes involved in prop construction, lighting, the setup and operation of sound systems, and the operation of projection equipment. The program develops basic construction techniques for stage property and scenery and affords practice in stage crew work, offering students the opportunity to acquire skills for careers in the entertainment industry. Students will learn to use a variety of production equipment, including lighting fixtures and consoles, electrical cabling, microphones, sound mixers, speakers, digital recorders, rigging hardware, and counterweight fly lines. Students will work as a team to support District performing arts department shows and gain hands-on experience demonstrating their skills in front of a live audience. Integrated throughout the course are Common Core State Standards and Career Technical Education Standards, which include safety, communication, technology, ethics, and career planning skills.

Theater Performer
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course provides a balanced theater arts program that emphasizes dramatic literature and/or musical theater activities that lead to the formal presentation of a scripted play. The class emphasizes awareness and practice in theater production, performance, direction, stage technique, voice, stage design, costuming, properties, and theater history. Students develop language skills and appreciation through reading dramatic literature from a worldwide perspective and writing critiques, character analyses, and play reports.

Theatrical Production, SOCSA
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course is designed to give advanced students a practical working knowledge of technical and design elements in the field of theater arts. Students will expand on the skills and concepts that are associated with the technical elements of theater that they acquired in Stagecraft. These elements include the basic industry standard career positions; lighting design, audio design, set design, set construction, scenic artistry, costume design and construction, and production and management. Students will create a professional portfolio, which includes sketches, annotated research and pictures of complete design projects through the production of five (5) stage performances.

Video Production
Instructor: Tyson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course introduces the video production industry. Instruction will be given in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Classwork will involve participation in individual and group productions in a variety of formats for various audiences. Students will be trained in the use of professional editing and production software and be expected

Video Production - Continued
to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

Video Production, Advanced
Instructor: Tyson
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This project-based course explores the use of video as a marketing tool. Students will create a variety of video content, including public service announcements, commercials and promotional spots. Projects will be geared towards increasing sales, recognition and awareness of brands, products and services. Coursework includes the study of project development and design along with effective communication skills while working with various clients within the school community. Emphasis will be on producing high-quality, professional video, through practicing effective composition, lighting and cinematography.

LAGUNA BEACH

HIGH SCHOOL

Laguna Beach High School

Offered at LBHS

- 3D Media Design
- AP Computer Science A
- AP Computer Science Principles
- AP Studio Art 2D Design
- AP Studio Art Drawing
- App Development
- Art Entrepreneurship
- Art Production I
- Art Production II
- Dance Company
- Dance II
- Dance III
- Dance IV
- Engineering Design & Analysis
- Engineering & Manufacturing Technology
- Medical Core
- Multimedia Design
- Multimedia Production
- Musical Theatre
- Theatre I
- Theatre II
- Theatre Performance

To register for classes contact your High School Counselor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

After School Classes

- **Automotive Mechanics**
- **Automotive Technology**
- **Aviation Careers**
- **Business Management & Entrepreneurship**
- **Culinary Hotel Hospitality**
- **Cybersecurity**
- **Dental Assisting**
- **Emergency Medical Technician**
- **Fashion Design**
- **Fire Science**
- **Lifeguarding**
- **Medical Assisting**
- **Medical Core**

- **Medical/Hospital Careers**
- **Medical Innovation, Research & Entrepreneurship**
- **Pharmacy Technician Pathway**
- **Robotics Fundamentals (Level 1)**
- **Robotics Design & Fabrication (Level 2)**
- **Robotics System Integration (Level 3)**
- **Robotics/Autonomous Systems (Level 4)**
- **Veterinary Technician Pathway**

CAPISTRANO UNIFIED SCHOOL DISTRICT

Laguna Beach High School

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To Laguna Beach High School Students
a – History/Social Science	**"f" – Requirement continued**
	• Musical Theatre
b – English	• Fashion Design
	• Theatre 1
c – Mathematics	• Theatre 2
	• Theatre Performance
d – Laboratory Science	
	"g" – Requirement
e – Language other than English	• Automotive Mechanics
	• Automotive Technology
f – Visual and Performing Arts	• Aviation Careers
	• Business Management/Entrepreneurship
g – College-prep Elective	• Culinary Hotel/Hospitality
	• Cybersecurity
"c" – Requirement	• Dental Assisting
• AP Computer Science A	• Engineering & Manufacturing Technology
"d" – Requirement	• Esports
• AP Computer Science Principles	• Fire Science
• Emergency Medical Technician	• Lifeguarding
• Engineering & Design Analysis	• Medical Assistant
"f" – Requirement	• Medical Core
• 3D Media Design	• Medical Hospital/Careers
• AP Studio Art – 2D	• Medical Innovation, Research & Entrepreneurship
• AP Studio Art – Drawing	• Robotics Fundamentals
• Art Entrepreneurship	• Robotics & Autonomous Systems
• Art Production 1	• Robotics Design & Fabrication
• Art Production 2	• Robotics System Integration
• Dance Company	• Pharmacy Clerk
• Dance II	• Pharmacy Technician
• Dance III	• Veterinary Technician/ Veterinary Technician Advanced
• Dance IV	
• Multimedia Design	
• Multimedia Production	

LAGUNA BEACH HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional 1.0 GPA points, similar to that of an AP or IB course.

Honors Weighted Courses Available to Laguna Beach High School Students

3D Media Design

AP Computer Science A

AP Computer Science Principles

AP2D Art and Design

AP Studio Art Drawing

Automotive Technology*

Business Management/Entrepreneurship*

Emergency Medical Technician*

Engineering & Manufacturing Technology

Fashion Design*

Medical Assisting*

Medical Core**

Medical/Hospital Careers**

Multimedia Design

Robotics Fundamentals*

Robotics Design & Fabrication*

Robotics System Integration*

Robotics & Autonomous Systems*

Veterinary Technician Advanced*

To Register for Classes Contact your High School Counselor
For more information contact:
COLLEGE AND CAREER
ADVANTAGE
WWW.CCADVANTAGE.ORG

(949)234-9464

(*)- Denotes an After-School class
Please check location
(**)- Course is available both during bell and after school

Laguna Beach High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
3D Media Design	3D Parametric Modeling Solidworks – DR 200
AP Computer Science A	Business Programming- JAVAB – CIMP 7A
Automotive Mechanics*	Automotive Fundamentals – AUTO 100
Automotive Technology*	Automotive Funadementals – AUTO 100
Business Mgmt/Entrepreneurship*	Entrepreneurship – BUS 160
Culinary Arts	Culinary Principles I – FN 240
Culinary Arts, Advanced	Culinary Principles I – FN 101
Fashion Design*	Intro to Fashion Careers – FASH 101
Multimedia Design Honors	Intro to Computer Graphics – GD147
Multimedia Production	Intro to Screen Printing – GC 63/ART63
Musical Theatre	Musical Theatre Techniques – TA 10
Theatre 2	Fundamentals of Acting – TA1
Course Title	**Santa Ana College Course Title**
Automotive Technology*	Auto Tech, Maintenance 002 Auto Tech, Essentials 006
Fire Science*	Fire Technology 101
Course Title	**Coastline College Course Title**
Business Mgmt/Entrepreneurship*	Small Business Operations
Medical Core	Medical Office C145

(*) – Denotes an After-School Class located on a different campus

Student must earn a grade of "A" or "B" to receive College Credit

Laguna Beach High School
Career Pathways

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Veterinary Technician	7140CC	02	"g"	NO	YES
Veterinary Technician Advanced Honors	7143CC	03	"g"	NO	YES

ARTS, MEDIA & ENTERTAINMENT SECTOR

GRAPHIC DESIGN PATHWAY (111A)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Multimedia Production	5621	01	"f"	YES - SB	NO
Multimedia Design Honors	7217CC	02	"f"	YES - SB	NO
Multimedia Design Advanced	5714	02	NO	NO	NO
3D Media Design Honors	5752	03	"f"	YES - SB	NO

VISUAL/COMMERCIAL ARTS PATHWAY (111C)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Art Production 2	7217	02	"f"	NO	NO
AP 2D Art & Design	A439	03	"f"	NO	NO
AP Drawing	A438	03	"f"	NO	NO
Art Entrepreneurship	7218	03	"f"	NO	NO

PROFESSIONAL THEATRE PATHWAY (112C)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Theatre Performance	7238	02	"f"	NO	NO
Musical Theatre	5742	03	"f"	YES - SB	NO
Theatre II	5743	03	"f"	YES - SB	NO

DANCE/CHOREOGRAPHY PATHWAY (112A)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Dance II	5718A	02	"f"	NO	NO
Dance III	5718B	03	"f"	NO	NO

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Business Management/ Entrepreneurship Honors	7411CC	02	"g"	YES - CL & SB	NO

ENGINEERING & ARCHITECTURE SECTOR

ENGINEERING DESIGN PATHWAY (152)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Engineering Design Honors	7730CC	02	"g"	NO	YES

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Robotics Fundamentals Honors	8102CC	02	"g"	NO	NO
Robotics Design & Fabrication Honors	8103CC	02	"g"	NO	NO
Robotics Systems Integration Honors	8104CC	03	"g"	NO	NO
Robotics & Autonomous Systems Honors	8105CC	03	"g"	NO	NO

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Fashion Design Honors	7812CC	02	"f"	YES - SB	NO

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

PATIENT CARE PATHWAY (198)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Dental Assisting I (1 semester)	7920CC	02	"g"	NO	YES
Dental Assisting II (1 semester)	7921CC	02	"g"	NO	YES
Medical Core Honors	7900C2	02	"g"	YES - CL	YES
Medical/Hospital Careers Honors	7900C3	03	"g"	NO	YES
Pharmacy Technician	CCA	02	"g"	NO	NO
Sports Medicine	CCA	02	"d"	YES - SB	YES
Surgical Technology Intro	7921C1	02	"g"	NO	YES
Surgical Technology II Honors	7921C3	03	"g"	NO	YES

HOSPITALITY, TOURISM & RECREATION SECTOR

FOOD SERVICE & HOSPITALITY PATHWAY (201)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Culinary Arts	8021CC	02	"g"	YES - SB	YES

INFORMATION & COMMUNICATION TECHNOLOGIES SECTOR

SOFTWARE & SYSTEMS DEVELOPMENT PATHWAY (174)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
AP Computer Science Principles	2472	02	"d"	NO	NO
AP Computer Science A	2470	03	"c"	NO	NO

| App Development | 8135 | 03 | "g" | NO | NO |

PUBLIC SERVICES SECTOR

PUBLIC SAFETY PATHWAY (232)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Forensic Science	CCA	02	"d"	NO	NO
Administration of Justice Honors	8413CC	02	"g"	NO	NO

EMERGENCY RESPONSE PATHWAY (233)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Fire Science	8422C3	02	"g"	YES - SA	NO
Emergency Medical Technician Honors	8423CC	03	"g"	NO	YES

TRANSPORTATION SECTOR

OPERATIONS PATHWAY (223)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Aviation Careers	8510CC	02	"g"	NO	NO

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	COURSE #	VEL	A-G	Articulated	Industry Certification
Automotive Mechanics	8534CC	02	"g"	YES - SA & SB	YES
Auto Technology Honors	8533CC	03	"g"	YES - SA & SB	YES

Articulation Codes:

CL = Coastline College
IVC = Irvine Valley College
SA = Santa Ana College
SB = Saddleback College

LAGUNA BEACH HIGH SCHOOL
COURSE DESCRIPTIONS

3D Media Design Honors (LBHS)
Instructor: Wittkop
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted; Articulates with Saddleback College
This course is a study of rapid prototyping (RP) and Additive Manufacturing (AM) and includes visualization and creation of 3D computer-generated models and their applications in today's manufacturing, multimedia, communications, and publishing industries. Students will be instructed in the principles of 3D modeling using state-of-the-art modeling software. Primary topics include prototype fundamentals, terminology, machine technology, advantages vs. disadvantages of various technologies, materials and finishing for industry, featuring applied laboratory activities in additive manufacturing and post-production finishing or processes on several different rapid prototyping machines. The students will learn how to troubleshoot a variety of problems and work with people in the industry. This course is aligned with Career and Technical Education Standards as a capstone course and is the last course in the CTE Graphic Design Pathway. This course is articulated with Saddleback College and students have the potential to earn college credits.

AP Computer Science A (LBHS)
Instructor: Denton
Credits: 5/semester
UC/CSU: c (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using java language. Language. These techniques represent proven approaches for developing solutions that can scale up form small, simple problems to large, complex problems. In addition, students in the AP Computer Science A course should be comfortable with functions and the concepts found in the uses of function notation, such as f (x) = g(h(x)). AP Computer Science A is equivalent to a first semester, college level course in computer science. This is a CTE capstone class. Students will be provided the opportunity to take the AP exam in the Spring.

AP Computer Science Principles (LBHS)
Instructor: Denton
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Computer science is everywhere, from our smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help you understand how computing and technology influence the world around you. Learn how to creatively address real world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. This class allows students to develop computational thinking, computer logic, algorithms, games, apps, programs from robots, an understanding of how information is transferred on the Internet; and how to keep information safe online (cyber security basics). The AP Computer Science Principles course is designed to be equivalent to a first-semester introductory college computing course. This course is part of the CTE Systems Programming Pathway and is a concentrator course for the pathway. Students will be provided the opportunity to take the AP exam in the Spring.

AP 2D Art & Design (LBHS)
Instructor: Beaudry-Porter
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
The AP Studio Art program enables students to do college-level work in studio art while in high school. AP Studio Art candidates submit a portfolio of artwork and written art intent for evaluation in May. Students build a body of work that shows evidence of principles of design and original ideation using photography, painting, digital painting, or mixed media. Guidelines for the portfolios were designed to accommodate a variety of interests and approaches to art on a 2D surface. The portfolio exam has two sections including the following: Selected Works: the development of a sense of excellence in art, and Sustained Investigation; a series of 15 artworks with a unifying theme. Students investigate art careers through a series of guest college representatives, and they attend two field trips. Students will be provided the opportunity to submit their portfolio for the AP exam in the Spring. This course is part of the CTE Visual-Commercial Arts Pathway and is a capstone course in the pathway.

AP Drawing (LBHS)
Instructor: Beaudry-Porter
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
The AP Studio Art program enables students to do college-level work in studio art while in high school. AP Studio Art candidates submit a portfolio of artwork and written art intent for evaluation in May. Students build a body of work that shows evidence of principles of design and original ideation using mark-making in a variety of media. Guidelines for the portfolios were designed to accommodate a variety of interests and approaches to art on a 2D surface using drawing. The portfolio exam has two sections including the following: Selected Works: the development of a sense of excellence in art, and Sustained Investigation; a series of 15 artworks with a unifying theme. Students investigate art careers through a series of guest college representatives, and they attend two field trips. Students will be provided the opportunity to submit their portfolio for the AP exam in the Spring. This course is part of the CTE Visual-Commercial Arts Pathway and is a capstone course in the pathway.

App Development (LBHS)
Instructor: Denton
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
App Development is a computer science course offered to students who have prior experience with computer science. The curriculum is designed and created by Apple Education. The class is divided into lessons and labs. In addition to the labs, there are five major projects: flashlight app, apple pie (word guessing game), personality quiz app, a list generator and a menu app. The concept of this course covers both computer science standards as well as the science and engineering practices of the NGSS standards. This course is part of the CTE Systems Programming Pathway and is a capstone course for the pathway.

Art Entrepreneurship (LBHS)
Instructor: Beaudry-Porter
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 11 - 12
This course is designed to introduce students to a variety of aspects in working and running a gallery exhibition and portfolio development. The focus of this course examines the role that exhibitions play in communicating knowledge and explores the variety of display methods within the language of exhibits. Students will understand the

Art Entrepreneurship (LBHS) - Continued
different roles of a curator, art director, gallery manager, museum exhibit designer, and communication designer. Students will learn how to create an Exhibition Brief; a method for organizing the "Big Idea" of an exhibit for museums, galleries, or companies. Students will go on field trips to galleries, museums, and businesses and analyze exhibits to gain an understanding of a target audience and develop exhibits of their own. Students will learn how to communicate clearly through design and create marketing tools using Adobe InDesign and Illustrator. This course is aligned with Career and Technical Education Standards as a capstone and is one of the last courses in the CTE Visual-Commercial Arts Pathway. This course is also aligned to CA Visual Arts Standards.

Art Production II (LBHS)
Instructor: Beaudry-Porter
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
This course is designed for students interested in advanced art as a career study and portfolio development through media experimentation. The instruction of the business aspect of art will include elements that lead to a successful and original art portfolio. This is a full-year course where students will investigate drawing and painting techniques including the following: limited palette painting, reductive drawing, mixed media, digital painting, photography, and new media. Students will visit museums and galleries to understand the role of art in society. Students will be able to expand and apply artistic skills learned by emulating the time management and problem solving skills of an Illustrator, Animator, Photographer, Art Director, Visual Designer, and Fine Artist. This course is aligned with Career and Technical Education Standards as a concentrator and is the first course in the CTE Visual-Commercial Arts Pathway. This course is also aligned to CA Visual Arts Standards.

Dance II (LBHS)
Instructor: Fratzke
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
P.E. graduation credit for LBHS students or VAPA credit if P.E. credit is fulfilled
Recommended Preparation: Passed both semesters of Dance I with a grade of 'C' or higher and no 'U' in citizenship. Incoming freshmen or students not enrolled in dance attended a placement exam and received approval from the Director to enroll in Dance II. Dance II is a Concentrator course for the CTE Dance Pathway. To receive pathway credit, students must take the course sequentially and pass both semesters with a 'D' or higher. In this yearlong course, students are held to daily intermediate standards in the training and study of dance & fitness, jazz, ballet, tap, hip-hop, modern, improvisation,

Dance II - Continued

and composition. Assessments and homework are used to evaluate and support student growth and understanding of the curriculum, as well as draw connections between dance history and college or career pathways in dance. Students are expected to perform in two annual dance concerts including all after-school rehearsals.

Dance III (LBHS)
Instructor: Fratzke
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Recommended Preparation: Passed both semesters of Dance II with a grade of 'B' or higher and no 'U' in citizenship.
Dance III is a Capstone course for the CTE Dance Pathway. To receive pathway credit, students must take the course sequentially and pass both semesters with a 'C-' or higher. In this yearlong course, students are held to daily advanced standards in the training and study of dance anatomy & fitness principles, jazz, ballet, tap, hip-hop, modern, improvisation, and composition with an emphasis on the ability to apply technique in various performance settings on campus, including attendance at all after-school rehearsals. Assessments and homework are used to evaluate and support student growth and understanding of the curriculum, as well as draw connections between dance history and college or career pathways in dance. Upon completion of this class, students will have experienced a versatile approach to dance training, a variety of live performance experiences, an understanding of how to approach dance studies in college and/or as a career, and a greater sense of individual expression and autonomy.

Dance IV (LBHS)
Instructor: Fratzke
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Recommended Preparation: Passed both semesters of Dance III with a grade of 'B' or higher and no 'U' in citizenship.
Dance IV is an Extra Offering course for the CTE Dance Pathway. In this yearlong course, students are held to daily pre-professional standards in the training and study of dance anatomy & fitness principles, jazz, ballet, hip-hop, modern, improvisation, and composition with an emphasis on the ability to apply technique in various performance settings on campus, including attendance at all after-school rehearsals. Assessments and homework are used to evaluate and support student growth and understanding of the course curriculum, as well as draw connections between dance history and college or career pathways in dance. Upon completion of this class, students will have experienced a versatile approach to dance training, a variety of live performance

Dance IV - Continued
experiences, an understanding of how to approach dance studies in college and/or as a career, and a greater sense of individual expression and autonomy.

Dance Company Honors (LBHS)
Instructor: Fratzke
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
Recommended Preparation: Audition Required 2.0 GPA and athletic clearance required prior to auditioning.
Dance Company is an extra offering course for the CTE Dance Pathway. In this yearlong course, students are held to daily pre-professional standards in the training and study of dance anatomy & fitness principles, jazz, ballet, tap, hip-hop, modern, improvisation, and composition with an emphasis on the ability to apply technique in various performance settings on campus and within the community, including attendance at all after-school rehearsals. Assessments and homework are used to evaluate and support student growth and understanding of the curriculum, as well as draw connections between dance history and college or career pathways in dance. Upon completion of this class, students will have experienced a versatile approach to dance training, a variety of live performance experiences, an understanding of how to approach dance studies in college and/or as a career, and a greater sense of individual expression and autonomy.

Medical Core Honors (LBHS)
Instructor: Friedman-de Leon
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
Articulates with Coastline Community College; Honors Weighted
This course is aligned with Career and Technical Education Standards as a concentrator and is the first course in the CTE Patient Care Pathway. This course is articulated with Coastline College and students have the potential to earn college credits. It is designed to not only expose students to the Healthcare industry by surveying the wide spectrum of Health Care occupations, but also by equipping them with the entry-level knowledge and skills that apply to a variety of health occupations. Medical Core is geared toward students who are interested in the following fields: Internist, Cardiologist, Cardiopulmonary Technician, X-Ray Technician, ECG/EKG Technician, Emergency Medical Technician, Echocardiogram Technician, Medical Assistant, or Athletic Trainer, among others. Students will study at length the language of healthcare (Medical Terminology) through the study of anatomy and physiology. An emphasis is placed on providing students with a thorough understanding of body systems and their interrelationships.

Multimedia Design Honors (LBHS)
Instructor: Wittkop
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 10 – 12
Honors Weighted
Articulates with Saddleback College
The primary focus of the course is given to directing students in the active creation of original artistic designs, digital illustrations and graphic media, these are creative projects and exercises much like that of any other visual arts course. The students will learn how to create artwork that then can be produced in different mediums. Technical training is integrated into stages of each design assignment with the outcome depending on the successful uptake of these skills; this includes Adobe Photoshop, Illustrator, InDesign, and CorelDraw. Demonstrations of specific tools, methods of achieving certain results, and basic best practices are given for each assignment. This course is aligned with Career and Technical Education Standards as a concentrator and is the second course in the CTE Graphic Design Pathway. This course is articulated with Saddleback College and students have the potential to earn college credits.

Multimedia Production (LBHS)
Instructor: Wittkop
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
This course explores the production printing process and the printing industry. The purpose of the course is to introduce the participant to the intricacies of all aspects of production printing and its impact on the world of graphic communication. The course is designed for students, artists, and entrepreneurs. The student will become familiar with the Adobe Package, Corel Draw and other software. They will also work with laser cutters, screen printers, DTG printers, plotters, 3D printers, and more. This course is aligned with Career and Technical Education Standards as an introductory and is the first course in the CTE Graphic Design Pathway. This course is articulated with Saddleback College and students have the potential to earn college credits.

Musical Theatre (LBHS)
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year- 10 Credits
Placement Guidelines: Grades 10 - 12,
Teacher Recommendation or Interview Required
Articulated with Saddleback College
Students will study the major principles of musical theatre and will hone their performance skills as they relate to musical theatre, specifically. Technique will be developed through various exercises as well as preparation and performance of a wide range of material. The course will include discussions about musical theatre history, development in recent years, and other related topics. This is both an academic and performance based class, designed to introduce musical theatre technique and literature to students. Students will present multiple pieces in a public performance at the conclusion of each semester.

Theatre II (LBHS)
Instructor: Longdon
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Students build on previously learned preparation, rehearsal, and performance skills through practical experience as actors, directors, and playwrights, deepening their appreciation for theatre as an art form through a critical lens. Students will closely analyze text and expand their range as actors and playwrights. Coursework may include monologue or scene study, musical theatre, theatre history, audition technique, and improvisation. Students will hone their skills for text analysis, listening, speaking, presenting, and collaboration, which are transferable to other subject areas, college, career, and beyond. Skills and values learned through theatre include teamwork, adaptability, empathy, creativity, and problem solving. Please note, this course typically meets after school on Tuesday and Thursday, although this schedule is subject to change. Students may have an opportunity to perform in a showcase at the conclusion of each semester.

Theatre Performance (LBHS)
Instructor: Longdon
Credits: 5/semester
UC/CSU: f
Length: Semester- 5 Credits
Placement Guidelines: Grades 9 - 12, *Audition Required*
In this project-based course, students learn discipline specific skills and build confidence through participation in a professional-style rehearsal process, culminating in public performances of a fully staged play or musical. Transferable skills and values learned through drama include teamwork, adaptability, empathy, creativity, and problem solving. Students may also have opportunities to work with guest directors and choreographers.

Theatre Performance – Continued
Please note this course meets in the evenings and on some weekends. The fall semester of Theatre Performance meets for the first ten weeks of the semester. Two separate projects take place during the spring semester, each meeting for approximately ten weeks, and students may audition for one or both of these projects.

SAN CLEMENTE

HIGH SCHOOL

CAREER TECHNICAL EDUCATION COURSES

Offered In-Bell at SCHS

- 2D Animation
- 3D Animation
- AP 2D Art & Design
- AP Computer Science A
- Architectural Design Pathway
- Automotive Academy
  - Automotive Mechanics
  - Automotive Technology
  - Advanced Diagnostics
- Automotive Mechanics Basics
- Catering & Event Planning
- CISCO IT Essentials
- CISCO Networking
- Culinary Arts
- Digital Photography Pathway
- Engineering Design & Development
- Engineering Principles
- Game Design
- Publishing (I,II,III,IV) Newspaper
- Publishing (I,II,III,IV) Yearbook
- Robotics Pathway
- Stagecraft
- Theater Performer
- Video Production

To register for classes contact your High School Counsleor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

San Clemente High School

After-School Course Offerings

- Automotive Mechanics
- Automotive Technology
- Aviation Careers
- Business Management & Entrepreneurship
- Cybersecurity
- Dental Assisting
- Emergency Medical Technician
- E-sports - *NEW*
- Fashion Design
- Fire Science
- Lifeguarding - *NEW*
- Medical Assisting
- Medical Core

- Medical Innovation, Research & Entrepreneurship
- Medical/Hospital Careers
- Pharmacy Pathway
- Robotics Fundamentals (Level 1)
- Robotics Design & Fabrication (Level 2)
- Robotics System Integration (Level 3)
- Robotics & Autonomous Systems (Level 4)
- Veterinary Technician Pathway

UC a-g CTE Courses

SAN CLEMENTE HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a- g" course list meet the entrance requirements for admittance to the University of California (UC) and California State University (CSU) systems. These courses are academically challenging, involve substantial reading, writing, problem-solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To San Clemente High School Students
a – History/Social Science **b** – English **c** – Mathematics **d** – Laboratory Science **e** – Language other than English **f** – Visual & Performing Arts **g** – College Preparatory Elective **"c" – Mathematics** • AP Computer Science **"d" – Laboratory Science** • EMT • Engineering Principles **"f" – Visual & Performing Arts** • 2D Animation • 3D Animation • AP 2D Art & Design • Architectural Design • Culinary Arts • Digital Photography • Fashion Design • Game Design • Publishing 1-4 Newspaper • Publishing 1-4 Yearbook • Stagecraft • Theater Performer • Video Production	**"g" – College Preparatory Elective** • Auto Academy (all 3 courses) • Automotive Mechanics, Basics • Automotive Technology • Aviation Careers • Business Management/Entrepreneurship • Catering & Event Planning • CISCO IT Essentials • CISCO Networking • Cybersecurity • Dental Assisting • Engineering Design & Development • Fire Science • E-sports • Medical Assisting • Medical Core • Medical/Hospital Careers • Medical Innovation, Research & Entrepreneurship • Pharmacy Clerk • Pharmacy Technician • Robotics Fundamentals • Robotics Design & Fabrication • Robotics System Integration • Robotics & Autonomous Design • Veterinary Technician • Veterinary Technician, Advanced

Honors Weighted CTE Courses

SAN CLEMENTE HIGH SCHOOL

> Students who earn a grade of "C-" or higher in these classes will receive an additional point towards their GPA calculation, similar to that of an AP/IB/Honors course.

Honors Weighted Courses Available to San Clemente High School Students

2D Animation
3D Animation
AP 2D Art & Design
AP Computer Science A
Architectural Design
Architectural Design, Advanced
Automotive Technology**
Business Management/Entrepreneurship*
Catering and Event Planning
Digital Photography
Digital Photography, Advanced
Emergency Medical Technician*
Engineering Design and Development
Engineering Principles
Fashion Design*
Game Design
Medical Assisting*
Medical Core*
Medical/ Hospital Careers*
Publishing - Newspaper
Publishing - Yearbook
Robotics Fundamentals**
Robotics Design & Fabrication**
Robotics System Integration*
Robotics & Autonomous Systems*
Stagecraft*
Theater Performer*
Video Production
Veterinary Technician Advanced*

To Register for Classes
Contact your High School Counselor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

(*)- Denotes an After-School class
Please check location.
(**)- Course is available both in-bell and after-school

San Clemente High School
2023–24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: Articulates with this course:

Course Title	Saddleback College Course Title
AP 2D Art & Design	Digital Photography I – PHOT 50
Architectural Design	Introduction to CAD- ARCH 50
Auto Mechanics, Basics**	Automotive Fundamentals - AUTO 100
Automotive Technology**	Automotive Fundamentals – AUTO 100/1
Business Mgmt/Entrepreneurship*	Entrepreneurship - BUS 160
CISCO IT Essentials	Computer Maintenance & Repair-CMT 220
CISCO IT Networking	Applied Network Technology- CMT 230
Culinary Arts	Culinary Principles I – FN 101
Culinary Arts, Advanced	Culinary Principles I - FN 101
Digital Photography	Digital Photography I – PHOT 50
Engineering Principles	3D CAD, Solidworks – MFG 204
Fashion Design*	Intro to Fashion Careers - FASH 101
Game Design	Intro to Computer and Video Game Design - CIMP 230
Publishing 1, Newspaper	News Media Production – JRN 112
Video Production	Video Production Basics - CTVR 101

Course Title	Santa Ana College Course Title
Fire Science*	Fire Technology 101

Course Title	Irvine Valley College Course Title
Engineering Design & Development	Engineering Drawing & Design – DR 101

(*) – Denotes an After–School Class located on a different campus
(**) – Course is available both in–bell at SCHS and after–bell on a different campus

Student must earn a grade of "A" or "B" to receive College Credit

SAN CLEMENTE HIGH SCHOOL
CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-Bell	02	G	No	No	None
Veterinary Technician, Adv.	After-Bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
2D Animation	In-Bell	02	F	Yes	Yes	None
3D Animation	In-Bell	03	F	No	Yes	None
Digital Photography	In-Bell	02	F	Yes	Yes	None
Publishing 1, Newspaper	In-Bell	02	F	Yes	Yes	None
Publishing 2, Newspaper	In-Bell	02	F	No	Yes	None
Publishing 3, Newspaper	In-Bell	02	F	No	Yes	None
Publishing 1, Yearbook	In-Bell	02	F	No	Yes	None
Publishing 2, Yearbook	In-Bell	02	F	No	Yes	None
Publishing 3, Yearbook	In-Bell	02	F	No	Yes	None
Digital Photo, Advanced	In-Bell	03	F	No	Yes	None
Publishing 4, Newspaper	In-Bell	03	F	No	Yes	None
Publishing 4, Yearbook	In-Bell	03	F	No	Yes	None
Video Production	In-Bell	03	F	Yes	Yes	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **
Revised 5.12.2023

PERFORMING ARTS PATHWAY (112)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Fall/Spring Performance	After-Bell	02	F	No	Yes	None
Theater Performer	After-Bell	03	F	No	Yes	None

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Stagecraft, Basics	After-Bell	02	F	No	No	None
Stagecraft	After-Bell	02	F	No	Yes	None
Stagecraft, Advanced	After-Bell	03	F	No	Yes	None

GAME DESIGN & INTEGRATION PATHWAY (114)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
E-Sports	After-Bell	02	G	No	No	None
Game Design	In-Bell	03	F	Yes	Yes	None

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	After-Bell	02	G	Yes	Yes	None

ENGINEERING & DESIGN SECTOR

ARCHITECTURAL DESIGN PATHWAY (150)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Architectural Design	In-Bell	02	F	Yes	Yes	None
Architect. Design Advanced	In-Bell	03	F	No	Yes	None

ENGINEERING DESIGN PATHWAY (152)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Engineering Principles	In-Bell	02	D	Yes	Yes	Solidworks
Robotics Fundamentals (1)	In & After	02	G	No	Yes	None
Robotics Design & Fab. (2)	In & After	02	G	No	Yes	None
Robotics Systems Int. (3)	After-Bell	02	G	No	Yes	None
Engineering Design/Develop	In-Bell	03	G	Yes	Yes	Solidworks
Robotics Autonomous Sys (4)	After-Bell	03	G	No	Yes	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. ** Revised 5.12.2023

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-Bell	02	F	Yes	Yes	None
Fashion Design, Advanced	After-Bell	03	F	No	Yes	None

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

PATIENT CARE PATHWAY (198)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-Bell	02	G	No	No	CPR; HIPAA; X-ray
Medical Core	After-Bell	02	G	No	Yes	CPR; HIPAA
Medical Innovation (MIRE)	After-Bell	02	G	No	No	None
Pharmacy Clerk	After-Bell	02	G	No	No	CPR; HIPAA
Surgical Tech, Basics	After-Bell	02	No	No	No	HIPAA
Medical Assisting	After-Bell	03	G	No	Yes	CPR; HIPAA
Medical/Hospital Careers	After-Bell	03	G	No	Yes	CPR; HIPAA
Pharmacy Technician	After-Bell	03	G	No	No	PT license

HOSPITALITY, TOURISM & RECREATION SECTOR

FOOD SERVICE & HOSPITALITY PATHWAY (201)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Culinary Arts	In-Bell	02	F	Yes	No	Serve Safe
Catering & Event Planning	In-Bell	03	G	No	Yes	None

INFORMATION & COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING PATHWAY (172)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
CISCO IT Essentials	In-Bell	02	G	Yes	No	IT Essentials
CyberSecurity	After-Bell	02	G	No	No	CompTIA
CISCO Networking	In-Bell	03	G	Yes	No	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. ** Revised 5.12.2023

SOFTWARE AND SYSTEMS DEVELOPMENT (174)
Systems Programming (Sub-Pathway 174A)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
AP Computer Science A	In-Bell	02	C	No	Yes	None

PUBLIC SERVICE SECTOR

EMERGENCY RESPONSE PATHWAY (233)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Fire Science	After-Bell	02	G	Yes	No	CPR; HIPAA
Lifeguarding	After-Bell	02	No	No	No	CPR; First Aid; Lifeguard
Emergency Medical Tech.	After-Bell	03	D	No	Yes	CPR; HIPAA; OSHA

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Auto Mechanics, Basics	In-Bell	02	G	No	No	ASE
Auto Academy, Consumer Auto	In-Bell	02	G	Yes	No	ASE
Auto Mechanics	After-Bell	02	G	No	No	ASE
Automotive Technology	After-Bell	03	G	Yes	Yes	ASE
Auto Academy, Auto Tech	In-Bell	03	G	Yes	Yes	ASE
Auto Academy, Adv Diagnostics	In-Bell	03	G	No	No	ASE

OPERATIONS PATHWAY (223)

Courses	Time	Level	A-G	Articulated	Honors	Industry Certification
Aviation Careers	After-Bell	02	G	No	No	None

** Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **
Revised 5.12.2023

2D Animation
Instructor: Bryan
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course studies animation as a creative art. Students will learn the vocabulary of animation and research and analyze animated films made by a diverse group of animators. Students will explore the visual language of animation from a two-pronged approach: by studying the history of animation as an expressive medium, and by learning the process of creating two dimensional and three dimensional animation. In addition to studying the style and meaning of a wide variety of animated short films, students will engage in the production of their own animation portfolios. By engaging in the process of creating animation, students will develop their own creative expression, thereby strengthening their own understanding of animation in a variety of contexts: social, visual, and historical. Students will compare the means by which animation communicates meaning, and make informed aesthetic evaluations based on the principles of visual design. By creating original animation, students will gain insight into the nature of the artist's desire to communicate, and how that communication is both interpreted and influenced by society. Students will analyze the diverse means by which animated film impacts culture by studying contemporary and historical artists who have used the medium to contribute to cultural life. The combination of studying animation and learning the process of animated film making as an expressive art will give students increased communication competency, enhance creative problem solving strategies, and bring about a wider appreciation of the impact of visual art in society.

3D Animation
Instructor: Bryan
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
3-D Animation is a CTE course encompassing both technical and theoretical facets of the three dimensional (3D) animation process. Students develop the necessary conceptual understanding and skills to create, analyze, and appreciate professional level 3D modeling in digital arts. This class covers the 3D animation process, professionally referred to as the animation pipeline, from concept design to final rendering.

AP Computer Science A
Instructor: O'Rourke
Credits: 5/semester
UC/CSU: c (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
This course is intended as an introductory course for students who contemplate majoring in computer science at the university level or other disciplines that require significant involvement with computing. This course emphasizes programming methodology and procedural abstraction, and includes the study of algorithms, data structures, and data abstraction. Students will learn to code fluently in a well-structured fashion utilizing a subset of the JAVA language. The course includes an introduction to classes and object oriented programming, as well as well-known algorithms and data structures.

Architectural Design
Instructor: Andre
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This course provides skills required for drafting and computer-assisted drafting (CAD), including architectural and electro/mechanical drawing. Students learn to use media and drafting materials, identify line styles and weights, distinguish different views, read prints, use correct graphic terminology, create lettering and freehand technical sketches, use descriptive geometry in CAD drafting, apply dimensioning and tolerance principles, and create drawings using state-of-the-art CAD software, including single view, orthographic drawings, auxiliary view, pictorial, and assembly drawings. Students apply math skills throughout the course, including measurement and geometry.

Architectural Design, Advanced
Instructor: Andre
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9-12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course is designed for students who have a passion for architecture and are considering it as a major in college. Emphasis is on the design process of defining the problem, researching and brainstorming ideas, developing and testing solutions to presenting and encouraging feedback on the final design. Students explore real-world design problems and challenges within the built environment as individual designers

Architectural Design, Advanced - Continued

and a collective team. Mathematical, scientific and artistic processes are applied to abstract and creative solutions for real-world problems, preparing the students both academically and professionally. The impact of design on the human experience is analyzed through the research and study of form and function, social and cultural precedents, environmental conditions and energy efficient materials and methodologies. The students apply fundamental design elements and principles to conceptualize and design two-dimensional compositions and three-dimensional projects. Traditional drawing and drafting are used for design and concept development.

Auto Academy - Advanced Diagnostics
Instructor: Selff
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
This course is for students in their third year of the Auto Academy. It is designed to provide the student with entry-level skills in diagnosing, locating, and repairing systems and components. Topics include shop safety, career preparation, computers, sensors, actuators, schematic diagrams,
troubleshooting procedures, advanced diagnostic equipment instruction and alternative fuels. Also, during this senior-year class, all students in this course will have an opportunity to try-out for a position on the prestigious San Clemente High School Automotive Troubleshooting Contest Team.

Auto Academy - Automotive Technology
Instructor: Selff
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
This course is for students in their second year of the Auto Academy. It Is a comprehensive course that ranges from core standards to advanced training. Students will receive instruction in component identification, fault diagnosis and replacement, precision measuring, rebuilding and repair, adjustment and servicing procedures, automatic transmission/transaxle, brakes, electrical systems, engine performance, engine repair, heating and air conditioning, manual drivetrain and axles, and front end repair. Integrated throughout the course are Career Preparation Standards, which include basic academic skills, communication, interpersonal skills, problem solving, workplace safety, technology, and employment literacy.

Auto Academy - Consumer Auto
Instructor: Selff
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
This course is for students in their first year of the Auto Academy. It prepares students to be able to diagnose/repair advanced computer controlled vehicles and their electronic systems. Course includes ignition systems diagnosis using electrical diagram of ASE design, fuel and air induction systems diagnosis, emission control system diagnosis, computer control and automobile scan tools. Course prepares students for ASL 1 certification.

Auto Mechanics, Basics
Instructor: Selff
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
This course provides an overview of the Systems Diagnosis, Service, and Repair Pathway. Students will practice personal, occupational, and environmental safety through the appropriate use of tools, equipment, and work processes. Students will use scientific principles in relation to chemical, mechanical, and physical functions for various engine and vehicle systems while performing maintenance procedures in accordance with manufacturer recommendations. Students will demonstrate the application, operation, maintenance, and diagnosis of engines and supporting subsystems while understanding appropriate business practices. Students will understand the function, principles, and operation of electrical systems as they relate to the automobile, and will explore the function and principles of drivetrains, steering, suspension, and brake systems.

Catering and Event Planning
Instructor: Graber
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
In this course, students will be given the opportunity to apply the skills they have developed in the Hospitality, Tourism and Recreation pathway through complex meal preparation and real-world application in an on campus café and community events. Additionally, students will cultivate professional skills transferable to the restaurant industry and post-secondary studies in food service, culinary arts, and hospitality management. Throughout each unit students will also explore historical and cultural

Catering and Event Planning - Continued

context of foods, scientific interactions, and evaluate each meal through extensive research, writing, and collaborative work as well as through consistent interactions with industry professionals.

CISCO IT Essentials
Instructor: O'Rourke
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College

This competency-based course presents an in-depth exposure to computer hardware and operating systems. Students learn the functionality of hardware and software components as well as best practices in maintenance and safety issues. In addition, students will learn how to assemble and configure a computer, install operating systems and software, and troubleshoot hardware and software problems. Additionally, there is an intensive introduction to multi-user, multitasking network operating systems. This course prepares students for Comptia's A+, N+ and S+ Certification exams.

CISCO Networking
Instructor: O'Rourke
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College

This capstone course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing, and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Students who complete Introduction to Networks will be able to perform the following functions; explain network technologies, explain how devices access local and remote network resources, implement basic network connectivity between devices, design an IP addressing scheme to provide network connectivity for a small to medium-sized business network, describe router hardware, explain how switching operates in a small to medium-sized business network, configure monitoring tools available for small to medium-sized business networks and configure initial settings on a network device.

Culinary Arts
Instructor: Graber
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College
Introduces students into the world of culinary arts and hospitality management. Basic communication skills, safety and sanitation, food preparation, meal planning, and other topics are taught in this beginning course. Students learn to properly prepare and present a variety of cuisines.

Digital Photography
Instructor: Mack
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Digital Photography, Advanced
Instructor: Mack
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This is the capstone course in the visual/commercial art sequence. It applies learning from introductory and intermediate visual/commercial art in a project-based environment. Course work will focus on 2-D and 3-D artistic products and their application to an industry/commercial environment.

Engineering Design & Development
Instructor: Andre
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Irvine Valley College; Honors Weighted
This is the capstone course in the Engineering Design pathway, focusing on specialized concepts and industries that require post-secondary training in the design, production, or maintenance of mechanical, electrical, electronic or electromechanical products and systems.

Engineering Principles
Instructor: Andre
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College; Honors Weighted
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. In this course, students develop advanced skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. In addition to the unit specific writing requirements, students will be required to keep a bound Engineering Notebook. An engineering notebook contains all design work completed for a specific design project. It is a chronological documentation of all tasks completed during a design process. It also includes written reflections on the design process and analysis of work completed throughout the course.

Game Design
Instructor: TBD
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulated with Saddleback; Honors Weighted
This course, Game Design, introduces students to the analysis, design, and creation of interactive three dimensional animation and games. This is a hands-on course that begins with an extensive overview of 3-D graphics, explaining the basic components of video game design; modeling, texturing, lighting, animation, and rules of game play. Using industry software, students will complete individual and group projects that require the problem solving and practical application of course competencies to create simple games.

Publishing Design - Newspaper
Instructor: Miller
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Publishing Design, Newspaper is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities.

Publishing Design - Yearbook
Instructor: Mack
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Honors Weighted
Publishing Design Yearbook is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities

Robotics Design & Fabrication
Instructor: Andre
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 – 12
Honors Weighted
In this course, students will continue their work from Robotics Fundamentals. They will continue to work in engineering teams to design, build and test increasingly complex robots. The course will illustrate the engineering design process, the importance of integrating sensors, and complex machine control, autonomous control and multi-robot systems. Students will be expected to solve challenges using physical robots and simulations. Students will explore additional hardware and software solutions to robotics problems. Students will learn advanced hardware and software techniques, as well as

Robotics Design & Fabrication - Continued

the mathematics and physics to understand them. Students will work in teams to complete a larger design problem and participate in local and regional competitions.

Robotics Fundamentals
Instructor: Andre
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted

This course is designed to advance skills in computation, problem solving, and critical thinking by designing and programming robots. Students will use a CAD program to design either an Arduino-based or microcontroller-based robot, then will use an object-oriented programming language typically used in the robotics industry such as C++ (or Arduino, a slightly modified version of C++), Java, or Python to control it. Students must be able to analyze their code and link each step in their code to their robot's actions in order to complete a given task successfully. Students must use various text resources both online and in print to properly use and develop functions within their code. Throughout the course, students will gain an understanding of how form and design has a direct influence on function, as well as the process of creating a robot from design and prototyping, to building, and to programming.

Stagecraft, Basics
Instructor: McCleary
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students

As the first year in the course sequence, this course introduces students to the techniques and processes involved in prop construction, lighting, the setup and operation of sound systems, and the operation of projection equipment. The program develops basic construction techniques for stage property and scenery and affords practice in stage crew work, offering students the opportunity to acquire skills for careers in the entertainment industry. Students will learn to use a variety of production equipment, including lighting fixtures and consoles, electrical cabling, microphones, sound mixers, speakers, digital recorders, rigging hardware, and counterweight fly lines. Students will work as a team to support District performing arts department shows and gain hands-on experience demonstrating their skills in front of a live audience. Integrated throughout the course are Common Core State Standards and Career Technical Education Standards, which include safety, communication, technology, ethics, and career planning skills.

Stagecraft
Instructor: McCleary
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
As the second level of the course sequence, this course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make- up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Stagecraft, Advanced
Instructor: McCleary
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
As the third level of the course sequence, this course trains the student in all areas of theater practice except performing. The student becomes proficient in analyzing set design, running crew, color, lighting, sound, costuming, and stage makeup/hair. Practical hands-on experience is gained in the construction of sets and stage materials. Master classes by industry professionals are provided for students in all areas of stagecraft. Students work together as a team to create professional-style productions preparing them for future opportunities in the area of stagecraft. Course can be taken more than once for credit.

Theater Performer
Instructor: McCleary
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course provides a balanced theater arts program that emphasizes dramatic literature and/or musical theater activities that lead to the formal presentation of a scripted play. The class emphasizes awareness and practice in theater production, performance, direction, stage technique, voice, stage design, costuming, properties, and theater history. Students develop language skills and appreciation through reading dramatic literature from a worldwide perspective and writing critiques, character analyses, and play reports.

Video Production
Instructor: Bisch
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based capstone course gives students an introduction to the video production industry. Instruction will be given in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Class work will involve participation in individual and group productions in a variety of formats for various audiences. Students will be trained in the use of professional editing and production software and be expected to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

SAN JUAN HILLS

HIGH SCHOOL

CAREER TECHNICAL EDUCATION COURSES

San Juan Hills High School

Offered at SJHHS

- Accounting
- Actors' Repertory
- Actors' Repertory Adv
- Art of Graphic Design
- Building & Industrial Trades 1-3
- Commercial Music
- Criminal Psychology
- Dance Performance
- Dance Performance Adv
- Digital Photography
- Emergency Medical Responder
- Forensic Science
- Graphic Production Tech
- Intro to Business
- Medical Core
- Publishing Design 1-4 Newspaper
- Publishing Design 1-4 Yearbook
- Sports Medicine
- Stagecraft
- Stagecraft Introduction
- Stagecraft-SJH
- Theatrical Production
- TV Broadcast Journalism
- Video Production
- Virtual Enterprise Intro
- Virtual Enterprise
- Virtual Enterprise 2

After School Course Offerings

- Automotive Mechanics
- Automotive Technology
- Aviation Careers
- Business Management & Entrepreneurship
- Cybersecurity
- Dental Assisting
- Emergency Medical Technician
- Esports
- Fashion Design Pathway
- Fire Science
- Lifeguarding
- Medical Assistant
- Medical Core
- Medical/Hospital Careers

- Medical Innovation, Research & Entrepreneurship (10-week course)
- Medical/Hospital Careers
- Pharmacy Technician Pathway
- Robotics Fundamentals (Level 1)
- Robotics Design & Fabrication (Level 2)
- Robotics System Integration (Level 3)
- Robotics & Autonomous Systems (Level 4)
- Surgical Tech Basic
- Veterinary Technician

For more information connect with your Career Guidance Specialist in the College & Career Center!

COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

SAN JUAN HILLS HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To San Juan Hills High School Students
a – History/Social Science **b** – English **c** – Mathematics **d** – Laboratory Science **e** – Language other than English **f** – Visual and Performing Arts **g** – College-prep Elective **"d" – Requirement** • Biotechnology • Emergency Medical Technician • Forensic Science • Sports Medicine **"f" – Requirement** • Actors' Repertory • AP 2D Art & Design • Art of Graphic Design • Commercial Music • Dance Performance • Digital Photography • Fashion Design • Graphic Production Technologies • Multimedia Design • Publishing I,II,III & IV Newspaper • Publishing I,II,III & IV Yearbook • Stagecraft • Stagecraft, Intro • Theatrical Production • TV Broadcast Journalism • Video Production	**"g" – Requirement** • Accounting • Automotive Mechanics • Automotive Technology • Aviation Careers • Building and Industrial Trades Academy I,II & III • Business Management/Entrepreneurship • Criminal Psychology • Cybersecurity • Dental Assisting • Esports • Fire Science • Hotel/ Hospitality Careers • Medical Core • Medical/ Hospital Careers • Pharmacy Clerk • Robotics Fundamentals • Robotics Design and Fabrication • Robotics Systems Integration • Robotics & Autonomous Systems • Veterinary Technician • Veterinary Technician Advanced • Virtual Enterprise Intro • Virtual Enterprise II

SAN JUAN HILLS HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional 1.0 GPA points, like that of an AP or IB course.

Honors Weighted Courses Available to San Juan Hills High School Students

Accounting
Actors' Repertory
Actors' Repertory Advanced
Art of Graphic Design
Automotive Technology*
Business Management/Entrepreneurship*
Commercial Music
Criminal Psychology
Dance Performance Advanced
Digital Photography
Emergency Medical Technician*
Fashion Design*
Fashion Design Advanced*
Forensic Science
Graphic Production Technologies
Medical Assisting*
Medical Core**
Medical/Hospital Careers*
Publishing 1-4 - Newspaper
Publishing 1-4 - Yearbook
Robotics Fundamentals*
Robotics Design & Fabrication*
Robotics System Integration*
Robotics & Autonomous Systems*
Stagecraft
Stagecraft-SJH
Theatrical Production
TV Broadcast Journalism
Video Production
Virtual Enterprise
Virtual Enterprise 2
Veterinary Technician Advanced

To Register for Classes
Contact your High Schoolr
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

99 of 143

(*)- Denotes an After-School class
Please check location
(**)- Course is available both during
bell and after school

San Juan Hills High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
Accounting	Accounting-ACCT 215
Actors Repertory	Fundamentals of Acting – TA 1
AP2D Art and Design	Digital Photography 1 – PHOT 50
Automotive Mechanics*	Automotive Fundamentals – AUTO 100
Automotive Technology*	Automotive Fundamentals – AUTO 100
Business Mgmt/Entrepreneurship*	Entrepreneurship - BUS 160
Digital Photography	Digital Photography I – PHOT 50
Fashion Design*	Intro to Fashion Careers - FASH 101
Sports Medicine	Introduction to Athletic Training – KNES 53
TV Broadcast Journalism	Television Production I – CTVR 124
Video Production	Video Production Basics - CTVR 101
Virtual Enterprise	Entrepreneurship - BUS 160
Course Title	**Santa Ana College Course Title**
Fire Science*	Fire Technology 101
Course Title	**Coastline College Course Title**
Art of Graphic Design	Introduction to Adobe Premier-DGA C121
Business Mgmt/Entrepreneurship*	Small Business Operations
Medical Core*	Medical Office C145
Multimedia Production	Digital Media Design Principles –DGA C135
Course Title	**Irvine Valley College Course Title**
Biotechnology	Biotechnology - 70 and 70L

(*) – Denotes an After-School Class located on a different campus

Student must earn a grade of "A" or "B" to receive College Credit

SAN JUAN HILLS HIGH SCHOOL
CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-bell	02	G	No	No	None
Veterinary Technician, Adv.	After bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Digital Photography	In-bell	02	F	Yes	Yes	None
Pub Design 1 - Newspaper	In-bell	02	F	Yes	Yes	None
Pub Design 2 - Newspaper	In-bell	02	F	No	Yes	None
Pub Design 3 - Newspaper	In-bell	02	F	No	Yes	None
Pub Design 1 - Yearbook	In-bell	02	F	No	Yes	None
Pub Design 2 - Yearbook	In-bell	02	F	No	Yes	None
Pub Design 3 - Yearbook	In-bell	02	F	No	Yes	None
Art of Graphic Design	In-bell	02	F	Yes	Yes	None
Graphic Production Tech.	In-bell	03	F	No	Yes	None
Pub Design 4 - Newspaper	In-bell	03	F	No	Yes	None
Pub Design 4 - Yearbook	In-bell	03	F	No	Yes	None
TV Broadcast Journalism	In-bell	03	F	Yes	Yes	None
Video Production	In-bell	03	F	Yes	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR (continued)

PERFORMING ARTS PATHWAY (112)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Actors' Repertory	In-bell	02	F	No	Yes	None
Commercial Music	In-bell	02	F	Yes	Yes	None
Dance Performance	In-bell	02	F	No	No	None
Actors Rep Advanced	In-bell	03	F	No	Yes	None
Dance Performance Adv	In-bell	03	F	No	Yes	None

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Stagecraft Basic	In-bell	02	F	No	No	None
Stagecraft	In-bell	02	F	No	Yes	None
Theatrical Production	In-bell	03	F	No	Yes	None

GAME DESIGN AND INTEGRATION PATHWAY (114)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
E-Sports	After-bell	02	G	No	No	None

BUILDING & CONSTRUCTION TRADES SECTOR

CABINETRY, MILLWORK, AND WOODWORKING PATHWAY (120)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Stagecraft-SJH	In-bell	02	F	No	Yes	None

RESIDENTIAL & COMMERCIAL CONSTRUCTION PATHWAY (123)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Building-BITA 1	In-bell	02	G	No	No	None
Building-BITA 2	In-bell	03	G	No	No	None
Building-BITA 3	In-bell	03	G	No	No	None

ENGINEERING & DESIGN SECTOR

ENGINEERING DESIGN PATHWAY (152)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Robotics Fundamentals	After-bell	02	G	No	Yes	None
Robotics Design & Fab.	After-bell	02	G	No	Yes	None
Robotics Systems Integration	After-bell	02	G	No	Yes	None
Robotics Autonomous Sys.	After-bell	03	G	No	Yes	None

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-bell	02	F	Yes	Yes	None
Fashion Design Advanced	After-bell	03	F	No	Yes	None

INFORMATION AND COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING (172)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Cybersecurity	After-bell	02	G	No	No	CompTIA

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	After-bell	02	G	Yes	Yes	None
Intro To Business	In-bell	02	No	No	No	None
Virtual Enterprise Intro	In-bell	02	G	No	No	None
Virtual Enterprise	In-bell	02	G	Yes	Yes	None
Accounting	In-bell	03	G	Yes	Yes	None
Virtual Enterprise 2	In-bell	03	G	No	Yes	None

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

PATIENT CARE PATHWAY (198)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-bell	02	G	No	No	CPR/HIPAA/X-Ray License
Medical Core	In/After-bell	02	G	No	Yes	CPR/
Medical Innov, Resrch & Ent	After-bell	02	G	No	No	None
Pharmacy Clerk	After-bell	02	G	No	No	CPR/HIPAA
Sports Medicine	In-bell	02	D	No	No	CPR/HIPAA
Surgical Tech Basic	After-bell	02	G	No	No	HIPAA
Medical Assisting	After-bell	03	G	No	Yes	CPR/HIPAA
Medical/Hospital Careers	After-bell	03	G	No	Yes	CPR/HIPAA
Pharmacy Technician	After-bell	03	G	No	No	CPR/HIPAA/PT License

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Auto Mechanics	After-bell	02	G	Yes	No	ASE
Automotive Technology	After-bell	03	G	Yes	Yes	ASE

OPERATIONS PATHWAY (223)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Aviation Careers	After-bell	02	G	No	No	None

PUBLIC SERVICES SECTOR

PUBLIC SAFETY PATHWAY (232)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Forensic Science Pub	In-bell	02	D	No	Yes	None
Criminal Psychology	In-bell	03	G	No	Yes	None

EMERGENCY RESPONSE PATHWAY (233)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Emergency Medical Resp.	In-bell	02	No	No	No	CPR
Fire Science	After-bell	02	G	Yes	No	CPR/HIPAA
Lifeguarding	After-bell	02	No	No	No	CPR, First Aid, Lifeguarding
Emergency Medical Tech.	After-bell	03	D	No	Yes	CPR/HIPAA/OSHA

SAN JUAN HILLS HIGH SCHOOL
COURSE DESCRIPTIONS

Accounting
Instructor: Wooten
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 credits
Placement Guidelines: Grades 9-12
Math graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Provides students a strong foundation in accounting principles, both in theory and practice. This course gives a head-start to all college-bound students planning to major in any Business-related program, including Business Administration, Marketing and Management. The Generally Accepted Accounting Principles will provide the foundation for the student's introduction to accounting as a process for measuring and recording the financial value of a business. In addition, the course will demonstrate the importance of monitoring the company's financial value to better evaluate and make timely and accurate decisions. Students will learn accounting practices for both proprietorships and partnerships in the service and merchandising sectors. Activities will include transaction analysis, journaling, payroll processes and financial statement preparation and interpretation. Students will also learn how to utilize the industry preferred QuickBooks accounting software. There will be opportunities to become a QuickBooks Certified User for interested students. Additionally, students may earn a certificate or college credit upon completion of this course.

Actors Repertory
Instructor: Graff
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted
This advanced course offers the student experience in performance situations. The student will study acting, directing, producing, and dramaturgy through multiple performance experiences. There is a prerequisite of one year of Advanced Drama for this course and/or Drama/Musical Comedy. Admission into the class is by audition only.

Actors Repertory, Advanced
Instructor: Graff
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted

Actor's Repertory Advanced focuses on the advanced techniques of theatrical performance. Through ensemble-oriented work, students develop their creative process, improvisational skills, script analysis skills and stage presence. Students will study characterization, motivation and creative movement through in depth scene study using theatrical literature and multiple theories of acting. Although improvisation is used, memorization for monologues and scenes will be required. Students will discuss advanced business concepts as well as apply acting technique to the audition. Through the process of trial and error, students will search for potential scenes and monologues that will showcase their talent. Additionally, students will refine their interview skills.

Art of Graphic Design
Instructor: Ramirez
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students; Honors Weighted

This course introduces students to the art of graphic design. Students learn about the history and development of this art form, explore cultural influences and examine its 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. Students will demonstrate their knowledge of the elements of art and principles of design while developing and refining their creative skills utilizing a variety of media including digital.

Building and Industrial Trades 1
Instructor: Macdonald
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12

The Residential and Commercial Construction course is designed to teach basic skills for the construction trades through a course rich in connections to construction projects that will generate interest in the math and increase students' likelihood of success. The course covers basic construction math; measurement and scale, blueprint reading, safety, procedural use of hand and power tools. Students acquire these skills through the use of technology and real world problem solving. Integrated throughout the course are foundation standards, which include communication, ethics, interpersonal/team skills, critical thinking and other employment skills needed for the 21st Century.

Building and Industrial Trades 2
Instructor: Macdonald
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
This course is designed to gain an in-depth understanding of the history behind construction, materials, and trades in the industry. Students will use Primary Sources and become Construction Historians as they construct the advancement of the trades, materials, and tools that are now being used in residential and commercial construction. The course covers a more advanced knowledge of safety, use of hand and power tools, blueprint reading, geometry, and estimating. Integrated throughout the course are foundation standards, which include communication, ethics, interpersonal/team skills, critical thinking and other employment skills needed for the 21st Century. Upon completion of this course, students will be able to perform the duties of an entry-level building construction technician with the knowledge of Construction Codes and general and trade-specific terminology.

Building and Industrial Trades 3
Instructor: Macdonald
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 11 – 12
This course builds on the skills learned in BITA 1 and BITA 2. Students will build a Tiny House using prior building and construction knowledge. They will explore new regulations and methods of constructing structures that will ultimately lessen the impact of humans on the environment.

Commercial Music
Instructor: Ushino
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This course introduces the student to concepts, techniques, and terminology of music technology through digital recording projects. The student will gain experience with current hardware and software for multitrack recording, sequencing, synthesis, music for visual media, and music performance. It is also designed as an introduction to music fundamentals and piano/keyboard skills.

Criminal Psychology
Instructor: Magana
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
Criminal Psychology is the application of the science and profession of psychology to questions and issues relating to law and the criminal and civil justice systems. This course applies psychological theories, principles, and research to issues of concern within the criminal justice system. By examining case studies, trials, laws, and psychological research, students will gain knowledge into psychological aspects of criminal activity, as well as a basic understanding of the role that psychology plays throughout the legal process in both criminal and civil cases. This course is concerned with the prevention, detection, and reduction of crime. Throughout the course, students will acquire knowledge and practice in the application of psychological and forensic methods to understand criminal behavior in order to prepare students for possible careers in forensic psychology or the criminal justice system.

Dance Performance
Instructor: Calder
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
P.E. or Fine Arts graduation credit for CUSD students
This two-semester course covers beginning levels of dance, including, but not limited to, jazz, modern, and ballet. Students will be introduced to dance conditioning, dance history, nutrition, injury prevention, and elements of choreography. Students are instructed in the fundamentals of working and performing in a professional dance company.

Dance Performance Advanced
Instructor: Calder
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
P.E. or Fine Arts graduation credit for CUSD students
Honors Weighted
This two-semester course covers intermediate levels of dance, including, but not limited to, jazz, modern, and ballet. Students will be introduced to dance conditioning, dance history, stage and theater etiquette, nutrition, injury prevention, and elements of choreography. Students will be instructed in the fundamentals of working and performing in a professional dance company.

Digital Photography
Instructor: Norgren
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College; Honors Weighted
This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Emergency Medical Responder
Instructor: Johnson
Credits: 5/semester
Length: Semester - 5 Credits
Placement Guidelines: Grades 9 – 12
This competency-based course prepares students for entry-level positions in the pre-hospital care industry. Students are introduced to emergency medical care including medical, legal, and ethical issues. Covers a wide variety of topics including human anatomy, communication and documentation, patient assessment, vital signs, lifting and moving patients, airway management, oxygen therapy, behavioral studies, obstetrics/gynecology, trauma, tending to infants and children, and ambulance operations.

Forensic Science
Instructor: Magana
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Physical Science graduation credit for CUSD students
Honors Weighted
This course covers the collection and analysis of evidence found at a crime scene using a variety of chemical, physical and microscopic examination techniques. Topics include blood spatter analysis, fingerprints, glass and fiber, toxicology, firearms, DNA, entomology, question documents, hair and serology. Students will learn the roles and responsibilities of investigators, coroners, crime scene technicians and forensic scientists.

Graphic Production Technology
Instructor: Ramirez
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
This course is designed to prepare the student for entry-level employment and advancement in the field of graphic design and the ability to communicate through the visual works they create. Instruction includes design and execution of layouts, professional illustration, color theory, industry specific production, silk screening, digital imaging, and logo design. Also covered are design principles necessary for publication design, mass distribution and other forms of visual communications such as ads in magazines and newspapers, book and CD cover designs, clothing, poster, billboards, brochures, letterhead, and logo designs.

Introduction to Business
Instructor: Wooten
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Semester - 5 Credits
Placement Guidelines: Grades 9 - 12
Intro to Business is the first (foundational) course of the Business Management Pathway. Students taking this course are introduced to basic economic principles and business practices, including business management and operations, entrepreneurship, marketing, finances, organizational structure, government and business, and risk management. Career opportunities and preparation, personal financial management, business writing and technological applications are also covered. There is an overarching emphasis on today's interconnected global economy throughout. Coursework and assignments provide hands-on and real-world learning experiences, as well as research and writing opportunities. By the end of the course, students will understand the basic practices and skills underlying the Business and Finance Industry Sector and will be prepared for the concentrator and capstone course of the Pathway.

Medical Core
Instructor: Johnson
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Semester - 5 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
Learn the concepts and techniques used in the healthcare field as well as the foundation of the terms and skills used as an emergency medical technician (EMT), medical assistant, hospital worker, lab assistant, and many other healthcare careers.

Publishing Design – Newspaper 1-4
Instructor: Kaiser
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Publishing Design - Newspaper is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities.

Publishing Design – Yearbook 1-4
Instructor: Arman
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Honors Weighted
Publishing Design - Yearbook is a year-long journalism production course devoted to the publication and dissemination of student photojournalism, art, and writing via print, online, and social media journalism in the school print publication and news website. Student work that is designed, produced and disseminated covers school-related news, sporting event coverage, feature stories, opinion pieces, as well as coverage of arts and entertainment that take place on and off campus and within the surrounding communities

Sports Medicine
Instructor: Johnson
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Biological Science graduation credit for CUSD students
Students will be introduced to the care, prevention and rehabilitation of athletic injuries. Also included in the course will be CPR certification, strength and conditioning principles relative to fitness clubs, athletic training rooms, physical therapy clinics, YMCAs, and chiropractic offices. Please see IMPORTANT NOTICE on Page 2.

Stagecraft Basic
Instructor: Graff
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
This course introduces the student to all areas of theater practice except acting. The student becomes knowledgeable in analyzing set design, color, lighting, costumes, and stage make- up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Stagecraft
Instructor: Graff
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Honors Weighted
This course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make-up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Theatrical Production
Instructor: Graff
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
This advanced course allows students to delve into the world of theatrical design. Students will research plays, time periods, and concepts; provide sketches of their designs, and execute the designs to the best of their abilities. Students will also gain knowledge in all areas of technical production (lighting, sound, costume, make up, set, stage management, design). Attendance at rehearsals and SOCSA performances will be required. This course may be taken more than once for credit.

TV Broadcast Journalism
Instructor: Zuidema
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Students will study the effects of light, color and scene composition. A video project is the product of creativity, writing, rewriting, collaboration, the use of light, the use of space, camera shots and angles, color, audio and the completion of color and editing.

TV Broadcast Journalism - Continued

Students will parse the video projects into its creative parts and learn how the video is created and produced. Students will study the impact of film and television on society from a social, economic and political viewpoint. Students will study the impact of ethics of video and film and the emotional side of experiencing media. Students will study how media is perceived as reality and its portrayal of social groups. Students will be required to complete written assignments and attend local film festivals. Students will be required to participate in two film festivals.

Video Production
Instructor: Zuidema
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course gives students an introduction to the video production industry. Instruction will be given in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Class work will involve participation in individual and group productions in a variety of formats for various audiences. Students will be trained in the use of professional editing and production software and be expected to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

Virtual Enterprise, Intro
Instructor: Wooten
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Virtual Enterprise Intro allows students to master basic economic principles and concepts. Students will be able to better understand the economic world around them by covering subject areas such as micro and macroeconomics, international economics, and entrepreneurship. Through a combination of project-based learning, lecture, research, and electronic media, students will not only gain exposure to economic principles, but also gain an understanding of the role global and domestic businesses have as well as the impact the federal government has on the economy. This will be accomplished by students creating a simulated business where they will determine the nature of their company, its products and services, its management and structure, and learn the daily operations of a business.

Virtual Enterprise
Instructor: Wooten
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College; Honors Weighted
Virtual Enterprise is a simulated business that is set up and run by students to prepare them for working in a real business environment. With the guidance of a teacher ("consultant") and real-world business partners, the students determine the nature of their business, its products and services, its management and structure, and engage in the daily operations of running a business. Emphasis is placed on using current business software, communications, and the Internet for business transactions. Integrated throughout the course are career preparation and academic content standards which include basic skills, communication, interpersonal skills, problem solving, safety, technology, and other employment skills.

Virtual Enterprise 2
Instructor: Wooten
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
Honors Weighted
Virtual Enterprise II is a project-based college preparatory course where students analyze and develop business acumen. Students build analytical skills—solving complex problems and making sound decisions in order to meet the challenge of a viable plan for business. Through the study of entrepreneurship, students encounter a rich source of themes such as creative thinking/innovation, opportunity recognition/analysis, value proposition, competitive advantage and sustainability, business financials including pricing, operating costs, and projections, financial literacy and cost/benefit analysis, market research and its application to marketing, social responsibility, and effective (business) planning. In the investigative process, students integrate academic knowledge to their own ventures, putting theory to practice. The class supports the integration of theory and "real life" through the mastery of basic economic principles such as supply and demand, opportunity cost, and the production/distribution chain. Students are also prepared to apply economic reasoning and tools to the framework of their own business.

TESORO

HIGH SCHOOL

CAREER TECHNICAL EDUCATION COURSES

Offered at THS

- **Accounting**
- **Actors Repertory**
- **AP Computer Science**
- **AP Computer Science Principles**
- **Business Management & Entrepreneurship**
- **Chemistry & Environmental Engineering**
- **Environmental Field Studies**
- **Child/Adolescent Literature**
- **Commercial Music**
- **Digital Photography**
- **Educational Psychology**
- **Multimedia Design Sports Medicine & Advanced**
- **Stagecraft Basics & Stagecraft**
- **Theatrical Production**
- **TV Broadcast Journalism**
- **Video Production**

To register for classes, contact your High School Counselor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG
(949)234-9464

Tesoro High School

After School Course Offerings

- **Automotive Mechanics**
- **Automotive Technology**
- **Aviation Careers**
- **Business Management & Entrepreneurship**
- **Cybersecurity**
- **Dental Assisting**
- **Emergency Medical Technician**
- **Esports**
- **Fashion Design**
- **Fire Science**
- **Lifeguarding**
- **Medical Assistant**
- **Medical Core**

- **Medical Innovation, Research & Entrepreneurship**
- **Medical/Hospital Careers**
- **Pharmacy Technician Pathway**
- **Robotics Fundamentals (Level 1)**
- **Robotics Design & Fabrication (Level 2)**
- **Robotics System Integration (Level 3)**
- **Robotics & Autonomous Systems (Level 4)**
- **Veterinary Technician Pathway**

UC a-g CTE Courses

TESORO HIGH SCHOOL

Courses taken in high school that are approved by UC/CSU and appear on the institution's "a-g" course list meet the entrance requirements for the University of California (UC) and California State University (CSU) admittance. These courses are academically challenging, involve substantial reading, writing, problem solving and laboratory work (as appropriate), and show serious attention to analytical thinking, factual content and developing students' oral and listening skills.

a-g Subject Requirements	UC a-g Approved CTE Courses Available To Tesoro High School Students
a – History/Social Science **b – English** **c – Mathematics** **d – Laboratory Science** **e – Language other than English** **f – Visual and Performing Arts** **g – College-prep Elective** **"b" – Requirement** • Exploration of Child & Adolescent Literature **"c" – Requirement** • AP Computer Science **"d" – Requirement** • AP Computer Science Principles • Chemistry & Environmental Engineering • Emergency Medical Technician • Sports Medicine **"f" – Requirement** • Actors' Repertory • Commercial Music • Digital Photography • Fashion Design Stagecraft • TV Broadcast Journalism • Video Production	**"g" – Requirement** • Accounting • Automotive Mechanics • Automotive Technology • Aviation Careers • Business Management/Entrepreneurship • Cybersecurity • Dental Assistant • Educational Psychology • Esports • Fire Science • Hotel/Hospitality Careers • Medical Assisting • Medical Core • Medical/ Hospital Careers • Medical Innovation, Research & Entrepreneurship • Pharmacy Clerk • Pharmacy Technician • Robotics & Autonomous Systems • Robotics Design & Fabrication • Robotics Fundamentals • Robotics System Integration •• Veterinary Technician Advanced

Honors Weighted CTE Courses

TESORO HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional 1.0 GPA points, similar to that of an AP or IB course.

Honors Weighted Courses Available to Tesoro High School Students

Accounting

Actors' Repertory

AP Computer Science

Automotive Technology*

Business Management/Entrepreneurship**
Commercial Music

Digital Photography

Educational Psychology

Emergency Medical Technician*

Environmental Field Studies
Exploration of Child & Adolescent Literature
Fashion Design*
Medical Assisting*

Medical Core*

Medical/ Hospital Careers*

Multimedia Design

Robotics Fundamentals* Robotics

Design & Fabrication* Robotics

System Integration*

Robotics & Autonomous Systems*

Sports Medicine, Advanced

Stagecraft

TV Broadcast Journalism

Video Production
Video Production, Advanced
Veterinary Technician Advanced*

To Register for Classes Contact your High School Counselor
For more information contact:
COLLEGE AND CAREER ADVANTAGE
WWW.CCADVANTAGE.ORG

(*)- Denotes an After-School class
Please check location
(**)- Course is available both during bell and after school.

Tesoro High School
2023-24 Articulated CTE Courses

Earn College Credit!

Take this course in High School: **Articulates with this course:**

Course Title	Saddleback College Course Title
Accounting	Accounting – ACCT 215
Actors Repertory	Fundamentals of Acting – TA I
Automotive Mechanics*	Automotive Fundamentals – AUTO 100
Automotive Technology*	Automotive Fundamentals – AUTO 100
Business Mgmt/Entrepreneurship*	Entrepreneurship – BUS 160
Commercial Music	Multi-track Recording – MUS 118
Digital Photography	Digital Photography I – PHOT 50
Fashion Design*	Intro to Fashion Careers – FASH 101
Sports Medicine	Intro to Athletic Training – KNES 53
TV Broadcast Journalism	Television Production I – CTVR 124
Video Production	Video Production Basics – CTVR 101
Course Title	**Santa Ana College Course Title**
Fire Science*	Fire Technology 101
Course Title	**Coastline College Course Title**
Business Mgmt/Entrepreneurship*	Small Business Operations
Digital Photography	Digital Photography w/Photoshop-DGA C121
Medical Core*	Medical Administrative Assistant-BC C145

(*) – Denotes an After-School Class located on a different campus

Student must earn a grade of "A" or "B" to receive College Credit

TESORO HIGH SCHOOL
CAREER PATHWAYS

AGRICULTURE & NATURAL RESOURCES SECTOR

ANIMAL SCIENCE PATHWAY (103)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Veterinary Technician	After-Bell	02	G	No	No	None
Veterinary Technician, Adv.	After-Bell	03	G	No	Yes	None

ARTS, MEDIA & ENTERTAINMENT SECTOR

DESIGN, VISUAL, & MEDIA ARTS PATHWAY (111)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Digital Photography	In-Bell	02	F	No	Yes	None
Multimedia Design	In-Bell	02	F	Yes	Yes	None
Video Production	In-Bell	03	F	Yes	Yes	None
TV Broadcast Journalism	In-Bell	03	F	Yes	No	None

PERFORMING ARTS PATHWAY (112)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Commercial Music	In-Bell	02	F	Yes	Yes	None
Actors' Repertory	In-Bell	02	F	No	No	None

PRODUCTION & MANAGERIAL ARTS PATHWAY (113)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Stagecraft Basics	In-Bell	02	F	No	No	None
Stagecraft	In-Bell	02	F	No	Yes	None
Theatrical Production	In-Bell	03	F	No	Yes	None

**Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **

GAME DESIGN AND INTEGRATION PATHWAY (114)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
E-Sports	After-Bell	02	G	No	No	No

BUSINESS & FINANCE SECTOR

BUSINESS MANAGEMENT PATHWAY (182)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Business Management/Ent	In & After-Bell	02	G	Yes	Yes	None
Accounting	In-Bell	03	G	Yes	Yes	None

EDUCATION, CHILD DEV., & FAMILY SERVICES SECTOR

EDUCATION PATHWAY (132)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Exploration of Child & Adol Lit	In-Bell	02	B	No	Yes	None
Educational Psychology	In-Bell	02	G	No	Yes	None

ENERGY, ENVIRONMENT, & UTILITIES SECTOR

ENVIRONMENTAL ENGINEERING PATHWAY (154)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Chemical & Environmental Engineering	In-Bell	02	D	No	Yes	None
Environmental Field Work	In-Bell	03	D	No	Yes	None

ENGINEERING & DESIGN SECTOR

ENGINEERING DESIGN PATHWAY (152)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Robotics Fundamentals	After-Bell	02	G	No	Yes	None
Robotics Design & Fab.	After-Bell	02	G	No	Yes	None
Robotics Systems Integration	After-Bell	03	G	No	Yes	None
Robotics Autonomous Sys.	After-Bell	03	G	No	Yes	None

FASHION & INTERIOR DESIGN SECTOR

FASHION DESIGN & MERCHANDISING PATHWAY (160)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fashion Design	After-Bell	02	F	Yes	Yes	None
Fashion Design, Advanced	After-Bell	03	F	No	Yes	None

**Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **

HEALTH SCIENCE & MEDICAL TECHNOLOGY SECTOR

PATIENT CARE PATHWAY (198)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Dental Assisting	After-Bell	02	G	No	No	CPR, HIPAA, X-Ray License
Medical Assisting	After-Bell	02	G	No	Yes	CPR, HIPAA
Medical Core	In & After-Bell	02	G	No	Yes	CPR, HIPAA
Pharmacy Clerk	After-Bell	02	G	No	No	CPR, HIPPA
Sports Medicine	In-Bell	02	D	No	No	CPR, HIPAA
Surgical Tech Basics	After-Bell	02	N/A	No	No	HIPPA
Medical/ Hospital Careers	After-Bell	03	G	No	No	CPR, HIPAA
Pharmacy Technician	After-Bell	03	G	No	No	PT License
Sports Medicine, Adv	In-Bell	03	G	No	Yes	None

INFORMATION & COMMUNICATION TECHNOLOGIES SECTOR

NETWORKING PATHWAY (172)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Cybersecurity	After-Bell	02	G	No	No	CompTIA

SOFTWARE & SYSTEMS DEVELOPMENT PATHWAY (174)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
AP Computer Science (CS)	In-Bell	02	C	No	Yes	None
AP CS Principles	In-Bell	02	D	No	Yes	None

PUBLIC SERVICE SECTOR

EMERGENCY RESPONSE PATHWAY (233)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Fire Science	After-Bell	02	G	Yes	No	CPR, HIPAA
Lifeguarding	After-Bell	02	N/A	No	No	CPR/First Aid
Emergency Medical Tech.	After-Bell	03	D	No	Yes	CPR, HIPAA, OSHA

TRANSPORTATION SECTOR

SYSTEMS DIAGNOSTICS, SERVICE, & REPAIR PATHWAY (221)

Courses	TIME	LEVEL	A-G	Articulated	Honors	Industry Certification
Auto Mechanics	After-Bell	02	G	Yes	No	ASE
Automotive Technology	After-Bell	03	G	Yes	Yes	ASE
Aviation Careers	After-Bell	02	G	No	No	None

**Students must take a Level 2, followed by a Level 3 course in sequence within the same pathway to be considered a pathway completer. Students must have their own transportation for regional after-bell courses. **

Aviation Careers	After-Bell	02	G	No	No	None

TESORO HIGH SCHOOL
COURSE DESCRIPTIONS

Accounting
Instructor: Cunningham
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 credits
Placement Guidelines: Grades 9-12
Math graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Provides a strong foundation of Generally Accepted Accounting Principles (GAAP), and an introduction to Financial, Cost, Managerial and Tax accounting. This course provides a head start for all students planning to major in any business-related program in college, including Business Administration, Marketing, Finance and Management. An emphasis on Sole Proprietorships and Corporations is utilized, and includes accounting for service-based and merchandising entities. Additionally, students may earn a certificate or college credit upon completion of this course.

Actors' Repertory
Instructor: Des Palmes
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10-12
Honors Weighted
This advanced course offers the student experience in performance situations. The students will study acting, directing, producing, and dramaturgy through multiple performance experiences. There is a prerequisite of one year of Advanced Drama for this course and/or Drama/Musical Comedy. Admission into the class is by audition only.

Business Management and Entrepreneurship
Instructor: Cunningham
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College; Honors Weighted
This course is an Introduction to Business and the various business majors in college. Students will learn the basics of starting, operating and managing a business. An actual Business Plan will be developed and created during the course. Each aspect of owning and/or managing a business will be covered, including financing, accounting, marketing, human resource management, logistics, and legal aspects and decisions. Real-world

Business Management and Entrepreneurship - Continued

scenarios, situations and cases are used to learn how to make effective business decisions. Various business-related programs (Shark Tank, The Profit, Restaurant Impossible, etc.) are used as simulations and decision models.

Chemistry and Environmental Engineering: Water We Doing?
Instructor: Danner
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Physical Science Credit for CUSD students
Using chemistry skills and concepts learned in the course, students solve environmental engineering problems related to water and its interactions with the environment. The course culminates with a project in which students use chemical and engineering principles to propose, design, build, and test a solution or prototype to solve an identified environmental water problem. Through such learning students can connect the learning of the classroom to the problems they encounter in the real world, and will be all the more prepared to solve those problems using the skills that both college and career demand.

Commercial Music
Instructor: Hancock
Credits: 5/semester
UC/CUSD: (must complete fall and spring semesters for UC/CSU credit)
Length: Year-10 Credits
Placement Guidelines: Grades
Commercial Music introduces the student to concepts, techniques, and terminology of music technology through digital recording projects. The student will gain experience with current hardware and software for multitrack recording, sequencing, synthesis, music for visual media, and music performance.   It is also designed as an introduction to music fundamentals and piano/keyboard skills which will aid in the completion of the projects we create in class.

AP Computer Science
Instructor: Trotter
Credits: 5/semester
UC/CUSD:
Length: Year - 10 Credits
Prerequisite: Geometry
AP Computer Science Principles is an introduction to computer science and coding. In addition to developing the thinking skills that computer scientists use, students will get an introduction to coding, algorithms, bits and bytes, how the Internet works, cybersecurity concerns, and trends in computing.The skills acquired in this class will prepare students to continue their study of computer science.

AP Computer Science A
Instructor: Trotter
Credits: 5/semester
UC/CUSD:
Length: Year - 10 Credits
Prerequisite: Honors Algebra 2/Trigonometry
AP Computer Science A is an introduction to coding in Java. There is significant lab time for students to design, write, and test programs. This course emphasizes object oriented programming, as well as algorithms, variables, control structures, and data structures.The skills acquired in this class will prepare students to major in computer science in college.

Digital Photography
Instructor: Hallam
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
This is a comprehensive program that introduces students with a basic understanding of digital photography as an art form. The photography course will cover technical and aesthetic aspects, including the operation of camera controls, functions, and settings. Computers using Adobe software will function as a darkroom to process corrections, manipulations and adjustments of the digital photographs.

Environmental Field Studies
Instructor: Tubbs
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 10 - 12
Physical Science Credit for CUSD students; Honors Weighted
Students will develop an understanding of environmental issues, current research results and methods, how to perform action research, and the importance of environmental issues to Southern California and our global economy. Course includes a community- based research project and presentation of results to peers and to the public. Students will become involved with an agency or professional to investigate a local environmental problem and develop skills to transfer their knowledge of science to new situations and applications**.**

Educational Psychology
Instructor: Woodward
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year- 10 Credits
Placement Guidelines: Grades 9-12
In this course, students explore classic, developmental, and abnormal psychology, particularly of adolescents. Develop workshops that teach younger peers about the effects of drugs on the body and mind. Facilitate Mental Health Awareness for the entire Skyline Community. Every 11th grader is offered a summer internship opportunity in the field of Education and Community Health. Will acquire knowledge of theory and research in the field of educational psychology with an emphasis on child and adolescent development, teaching and learning, motivation, and application of theory to classroom practice.

Exploration of Child and Adolescent Literature
Instructor: Szczudlak
Credits: 5/semester
UC/CSU: b (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
Exploration of Child and Adolescent Literature is a grade 10 Honors English college preparatory course integrated with the Education Pathway standards. This course allows students to utilize Language Arts skills to investigate and evaluate the value and the purpose of world literature for children and adolescents. Students synthesize their knowledge of the developmental stages of physical, intellectual, social, and emotional (PIES) development with their understanding of appropriate teaching materials and readings for each of the stages (psychological aspect of the course). In addition, students evaluate how familial and cultural influences affect the themes and development of child and adolescent literature and why those themes are crucial to

Exploration of Child and Adolescent Literature - Continued
the educational progress of children and adolescents. Students conduct research, closely read and analyze complex texts, evaluate the components of effective child and adolescent literature. This course will prepare students for AP Language and Composition and other future demanding courses in both high school and college.

Multimedia Design
Instructor: Sybirski
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits Placement Guidelines: Grades 9 - 12 Fine Arts graduation credit for CUSD students Honors Weighted This course is designed for students who are interested in exploring the real-world applications of the arts, focusing on design and how it pertains to a variety of technologies, such as digital photography and the application of current industry software. Students will acquire knowledge and explore the elements of design with practical considerations of the correct and current technologies to complete successful design projects, beginning with the original concept/storyboard, to designing and completing the final project according to a production deadline.

Sports Medicine
Instructor: Rosenbaum
Credits: 5/semester
UC/CSU: d (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Industry Certification: CPR and HIPAA
Biological Science graduation credit for CUSD students
Articulates with Saddleback College
Students will be introduced to the care, prevention and rehabilitation of athletic injuries. Also included in the course will be CPR certification, strength and conditioning principles relative to fitness clubs, athletic training rooms, physical therapy clinics, YMCAs, and chiropractic offices. Please see IMPORTANT NOTICE on Page 2.

Sports Medicine, Advanced
Instructor: Rosenbaum
Credits: 5/semester
UC/CSU: G (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Honors Weighted
Sports Medicine, Advanced is the capstone course for the Health Science and Medical Technology industry sector, patient care pathway. This advanced course is a one-year, lecture-laboratory science elective designed to provide a challenging academic experience and hands-on field experience involved with the rapidly growing field of Sports Medicine. Sports Medicine is a multidisciplinary approach for those involved in sports, involving a variety of professionals, such as physicians, physical therapist,

Sports Medicine, Advanced - Continued
certified athletic trainers, strength and conditioning specialist, and nutritionists. Technical instruction includes orientation, safety and infection control, communication and interpersonal skills, academic proficiency, and employability skills. Emphasis is placed on: ethical and legal considerations, pharmacology, sports and therapeutic equipment, nutrition and weight management, infection control, assessment of vital signs, basic life support (including AED and CPR), soft tissue injuries, injuries to the lower and upper extremities, injuries to the head and spine, injuries to the chest and abdomen, environmental conditions, medical conditions, taping and bracing, therapeutic modalities, and physical rehabilitation.

Stagecraft,Basics
Instructor: Des Palmes
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
This course introduces the student to all areas of theater practice except acting. The student becomes knowledgeable in analyzing set design, color, lighting, costumes, and stage make- up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Stagecraft
Instructor: Des Palmes
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 5/10 Credits
Placement Guidelines: 9 - 12
Honors Weighted
This course trains the student in all areas of theater practice except acting. The student becomes proficient in analyzing set design, color, lighting, costumes, and stage make-up. Practical experience is gained in the construction of sets and stage materials. Course can be taken more than once for credit.

Theatrical Production
Instructor: Des Palmes
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12 This advanced course allows students to delve into the world of theatrical design. Students will research plays, time periods, and concepts; provide sketches of their designs, and execute the designs to the best of their abilities. Students will also gain knowledge in all areas of technical production (lighting, sound, costume, make up, set, stage management, design). Attendance at rehearsals and SOCSA performances will be required. This course may be taken more than once for credit.

TV Broadcast Journalism
Instructor: Hallam
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
Students will study the effects of light, color and scene composition. A video project is the product of creativity, writing, rewriting, collaboration, the use of light, the use of space, camera shots and angles, color, audio and the completion of color and editing. Students will parse the video projects into its creative parts and learn how the video is created and produced. Students will study the impact of film and television on society from a social, economic and political viewpoint. Students will study the impact of ethics of video and film and the emotional side of experiencing media. Students will study how media is perceived as reality and its portrayal of social groups. Students will be required to complete written assignments and attend local film festivals. Students will be required to participate in two film festivals.

Video Production
Instructor: Hallam
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD students
Articulates with Saddleback College; Honors Weighted
This competency-based course gives students an introduction to the video production industry. Instruction will be given in the areas of digital information, script writing, project planning, announcing and interviewing, cinematography, editing, transitions and effects, audio design and editing, graphics and titles, exporting and promotion. Class work will involve participation in individual and group productions in a variety of formats for various audiences. Students will be trained in the use of professional editing and production software and be expected to collaborate with others in the design and production of original content. Special emphasis will be given on ethics, acceptable use and copyrights, and troubleshooting skills.

UNION
HIGH SCHOOL

UNION HIGH SCHOOL
COURSE DESCRIPTIONS

Commercial Music (UHS)
Instructor: Longdon
Credits: 5/semester
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
This course shall introduce students to the fundamental rudiments of Western music within the context of popular 20th Century American music. Students will learn how the elements of music, including standard notation, rhythm, pitch, form, melody, and Common Practice harmony, help to convey meaning and mood in music. Within this context, students will study and learn basic technique and methods of music creation and notation using computer-based programs and electronic instruments. Students will study prominent musicians of various 20th Century genres and learn how popular music, culture, and history are inextricably linked in American history. The purpose of this course is to give students an avenue for composition, collaboration, and music technology using the medium of contemporary music.

Culinary Arts (UHS)
Instructor: Smith
Credits: 5/semester
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
Introduces students into the world of culinary arts and hospitality management. Basic communication skills, safety and sanitation, food preparation, meal planning, and other topics are taught in this beginning course. Students learn to properly prepare and present a variety of cuisines.

Digital Media Art (UHS)
Instructor: Reynard
Credits: 5/semester
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Year - 10 Credits
Placement Guidelines: Grades 9 - 12
Fine Arts graduation credit for CUSD
This one-year course is designed for students interested in digital media arts. Students will learn the specialized vocabulary of the television and film industry and use it to express themselves clearly and concisely. Students will be actively involved in all aspects of video production from visualization/storyboarding, composing an outline proposal, scriptwriting, lighting, digital camera operations, directing, and editing. The completed project will be a video product based on their script. Students will also write

and produce live television shows in a variety of formats. Historical and contemporary examples of film/video (classic and contemporary films, movie trailers, news,

Digital Media Art - Continued

documentary, commercials and music videos) will be studied and critiqued using a variety of media resources, including Internet. Students will study the impact of film and television on society from a social, economic, and political viewpoint.

REGIONAL

AFTER-SCHOOL COURSES

Regional After-School Classes

Course Descriptions

Automotive Mechanics
Instructor: Sullivan
Days: Thursdays
Times 4:00 – 8:30 P.M.
Location: Capistrano Valley High School – Room C5
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College
Automotive Mechanics provides an overview of the Systems Diagnosis, Service, and Repair Pathway. Students will practice personal, occupational, and environmental safety through the appropriate use of tools, equipment, and work processes. Students will use scientific principles in relation to chemical, mechanical, and physical functions for various engine and vehicle systems while performing maintenance procedures in accordance with manufacturer recommendations. Students will demonstrate the application operation, maintenance, and diagnosis of engines and supporting subsystems while understanding appropriate business practices. Students will understand the function, principles, and operation of electrical systems as they relate to the automobile, and will explore the function and principles of drivetrains, steering, suspension, and brake systems.

Automotive Technology
Instructor: Selff
Days: Tuesday
Times 4:00 – 8:30 P.M.
Location: San Clemente High School – Room S11
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulated with Saddleback College and Santa Ana College; Honors Weighted
Automotive Technology is the study of the different components and subsystems of today's modern automobiles. The class will inform students of the different routes one can take to achieve their career goal to become a technician including community college, trade schools, as well as four-year University for engineering programs to ensure students are prepared for where technology is headed in the future. Given the nature of the automotive profession, students will also make connections to concepts that are studied in their math and science classes. These concepts will be related to algebra, basic arithmetic, physics, electrical, computer and chemical sciences. Students will be asked to think critically about how these mathematical and scientific concepts are directly and indirectly tied to careers in the automotive and transportation professions.

Aviation Careers
Instructor: Lewis
Days: Tuesdays/Thursdays
Times 4:00 – 6:30 P.M.
Location: Tesoro High School – Room 309
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 - 12
This course is the first course in a sequenced career pathway. It explores the many careers in the fields of aviation and aeronautics and prepares students for upper level courses in this pathway. Instruction includes a study of the development of aircraft and the aviation/aeronautical industries. Through a project-based learning approach, students will learn about the scientific and mathematical principles of flight and aerodynamics. Students will learn the requirements and opportunities for careers and post-secondary education in aviation and aeronautics. They will develop a personal career/life plan while also practicing valuable foundation skills in technical reading and writing, public speaking and technology.

Business Management/Entrepreneurship
Instructor: Whiteside
Days: Thursdays
Times 4:00 – 8:30 P.M.
Location: Aliso Niguel High School – Room 803
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 - 12
Articulates with Saddleback College & Coastline Community College; Honors Weighted
Students in this class will formulate an operable business plan. Each phase of opening a business will be covered, including legal forms (sole proprietorship, partnership, corporation), ways to start, publicity, advertising, location, licenses, permits, competition, financing, management, bookkeeping, and more. Students must be prepared for outside research on individual areas of interest.

Cyber Security
Instructor: O'Rourke
Days: Mondays/Wednesdays
Times 4:00 – 6:30 P.M.
Location: San Clemente High School – Room S3
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Cybersecurity prepares students for a career in network administration and technical support with a focus on cybersecurity. The course includes a series of technical subjects that provide hands-on knowledge and skills in computer hardware, operating systems, networking, and security concepts. This course targets students preparing for careers in

Cyber Security - Continued
cybersecurity and information and communications technology. Industry standards software is used.

Dental Assisting
Instructor: Gutierrez
Days: Tuesdays/Thursdays + Internship Outside of Class Time
Times 4:00 – 7:00 P.M.
Location: College and Career Training Center – Room P19
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 10 – 12 (Age 16 +)
Biological Science graduation credit for CUSD students
Students will learn dental terminology, tooth anatomy, dental charting, preventative care, scheduling, and insurance procedures. Also included in this course is anatomy, infection control, standard precaution, CPR certification, preventative dentistry, and the business functions of an office. Students must receive a Certificate of Completion to meet the prerequisite requirement for Dental Assisting II being offered in the Spring semester. Additional criteria: +50 hours of required internship assignment in Fall and +70 in Spring.

Emergency Medical Technician
Instructor: Johnson
Days: Mondays/Wednesdays Times: 4:00 – 6:30 p.m.
-or- Days: Tuesdays/Thursdays Times: 4:00 – 6:30 p.m.
Location: College and Career Training Center – Room P17
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Seniors Only
Honors Weighted
This competency-based course is designed to prepare students for entry-level positions into the health care industry and the vocabulary to enter any advanced Health Science Pathway course. The course takes students on a fascinating journey beginning with history, future, and components of the emergency system, the wellbeing of the first responders, legal issues, medical terminology, and abbreviations. The course provides students with a comprehensive understanding of anatomy, physiology, and pathophysiology of the human body. These concepts are solidifying the foundational knowledge for specific medical emergencies. The course also gives students a genuine context for the application of the knowledge used to help patients in the field. The course begins with basic knowledge of anatomy and physiology, first aid, CPR, and safety practices and ends with a thorough understanding of medical emergencies. The course presents the tools for students to understand the importance of pre-hospital care and delivers a thorough understanding of the proper use of medical equipment necessary to provide appropriate care. The competencies in this course align with the National Standard Curriculum, Common Core State Standards, and the California Career Technical Education Model Curriculum Standards.

e-Sports
Instructor: Bui
Days: Tuesdays/Thursdays
Times 4:00 – 6:30 P.M.
Location: Tesoro High School – Room 903
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
This online course provides an introduction to e-sports. The focus of the course is on learning the e-sports foundations, the professional lifestyle of the players, how streaming works, and the current status of the industry. In this course, students will not only learn about the esports industry, they will also engage in the play experience and get a deeper insight into the esports ecosystem. In the course, students will play esports games as gamers but will also look at the experience as designers and critical thinkers.

Fashion Design
Instructor: Kirtz
Days: Mondays/Wednesdays Times 4:00 – 6:30 P.M. -or- 6:30 - 9:00 P.M.
Location: Capistrano Valley High School – Room C3
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Saddleback College; Honors Weighted
This yearlong course offers in-depth experiences that focus on the exploration of fashion as visual and functional pieces of art. Students will learn the aesthetic aspects of two and three-dimensional design necessary to create sketches, designs and actual articles of clothing. Students learn the elements and principles of design as applied to textiles and fashion and use them to evaluate their own designs as well as the designs of well-known designers. Students study color theory as it applies to textile and fashion design. They study the historic and current social and economic influences on fashion, and explore the history and cultural dimension of fashion. The course includes a study of fashion designers, textiles, including fibers, yarns, and fabrics, pattern making, apparel production and the fashion industry. Students learn how fashion design is connected to other academic disciplines and the career opportunities that are related to fashion design and the world of fashion. Students are provided with the opportunity to gain the knowledge and skills necessary to understand and work in the professionally diverse global fashion industry.

Fashion Design, Advanced
Instructor: Kirtz
Days: Mondays/Wednesdays Times 4:00 – 6:30 P.M.
Location: Capistrano Valley High School – Room C3
UC/CSU: f (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Saddleback College; Honors Weighted
Students apply previous knowledge and skills of fashion illustration, concept and product design while demonstrating an understanding and mindfulness for our environment as individual designers and a collective team. Students synthesize knowledge of historic and contemporary fashion and costume design, cultural and societal perspectives. Complex conceptual design studies will focus on the use of upcycled, reusable, recycled and sustainable materials. Students will incorporate traditional and unconventional textile and construction techniques using professional tools and machines to design and create functional and wearable products. Students will evaluate opportunities and careers in the professional design field. The course culminates with the completion of all projects displayed and presented at the Annual Art Show.

Fire Science
Instructor: Russell
Days: Monday
Times 4:00 – 8:30 P.M.
Location: College and Career Training Center – Room P17
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Santa Ana College
This course will provide students a comprehensive overview of the fire service as an occupational pathway within the public services industry sector. Coursework will follow IFSTA including an overview of fire service history, advancements made in apparatus, and in-depth study of the diverse roles, duties, and skills required in "all-risk" modern day firefighting. Integrated within the course are structural & wildland firefighting tactics & strategies, fire behavior, ventilation, fire apparatus, ground ladders, aerial ladders, fire streams, building construction, vehicle extrication, chemistry, hazardous materials, occupational safety, placarding systems, emergency medical response (EMS), fire protection systems, communications equipment, health & safety, and personal protective equipment (PPE).

Medical Assisting
Instructor: Brown
Days: Monday/Wednesday
Times 4:00 – 6:30 P.M.
Location: College and Career Training Center – Room P16
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
This competency-based course prepares students for employment as a front office medical assistant, insurance clerk or receptionist. Computerized scheduling procedures, patient receptions, telephone techniques, records management, bookkeeping, collections, health insurance billing, and medical terminology are covered. Instructors will teach current procedures for medication administration, injections, sterile technique, autoclaving, vital signs, basic laboratory duties, venipuncture, electrocardiograms, assisting the physician, anatomy, physiology, terminology, and abbreviations needed to work in the medical setting. The program requires classroom instruction followed by an internship.

Medical Core
Instructor: Brown
Days: Tuesday/Thursday
Times 4:00 – 6:30 P.M.
Location: College and Career Training Center – Room P18
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Articulates with Coastline College; Honors Weighted
This course is designed to expose students to the Health Care industry by surveying the wide spectrum of Health Care occupations and equipping them with the entry-level knowledge and skills that apply to a variety of health occupations. Students who successfully complete this course will acquire the necessary core knowledge and skills that will allow them to pursue an education and career in the Health Care industry. Medical Core I is an introductory course intended to give the student a chance to explore the Health Care Industry and the possible career paths within the industry. This course is a prerequisite for the majority of health career courses. The course is centered on the language of healthcare (Medical Terminology) through the study of anatomy and physiology. Emphasis is on providing students with a thorough understanding of body systems and their interrelationships.

Medical/Hospital Careers
Instructor: Friedman-de Leon
Days: Tuesdays + Internship
Times 4:00 – 8:30 P.M.
Location: Laguna Beach High School – Room 77
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
This course is designed to teach the fundamental skills necessary for both administrative and clinical duties in a physician's office, hospital or a medical clinic. Students will learn and practice skills required for Medical Assistants through core curriculum and simulated clinical exercises, including the ability to prepare patients for examinations, treatments, perform a variety of standard laboratory procedures, assist with minor surgical procedures, and maintain patient health records. A clinic internship is required to receive the Medical Assistant certificate. CPR and First Aid certifications are included in this course and are awarded based on competency examination.

Medical Innovation, Research & Entrepreneurship (MIRE)
Instructor: Andre/Brown
Days: Tuesdays/Thursdays
Times: 4:00 – 6:30 P.M. (Tues) and 4:00 – 6:30 P.M. (Thurs)
Location: Virtual - Online
UC/CSU: g
Length: 10 weeks - 2.5 Credits
Placement Guidelines: Grades 9 – 12
This 10-week, cross-disciplinary curriculum combines science, research, Artificial Intelligence, law, and entrepreneurship to impart a real-world view of the multidisciplinary skills needed to thrive in the biotech/med-tech entrepreneurial world. Student teams will work with industry mentors to solve real world unmet pediatric clinical needs, devising a proof –of-concept, intellectual property/patent strategy, and pitch to industry leaders on the final day.

Pharmacy Clerk
Instructor: Alvarez
Days: Tuesday/Thursday
Times 4:00 – 6:30 P.M.
Location: College and Career Training Center – Room P15
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
This course is the concentrator course in our CTE Patient Care Pathway and gives the student basic skills and understanding of the profession to perform as an entry-level pharmacy clerk in many practice settings. Students learn pharmaceutical terms, basic clerical skills, customer service, insurance billing and retail skills. Integrated throughout the course are Common Core State Standards and Career Technical Education

Pharmacy Clerk - Continued
Standards, which include safety, communication, technology, ethics, career planning and other employability skills.

Pharmacy Technician
Instructor: Alvarez
Days: Tuesday/Thursday
Times 4:00 – 6:30 P.M.
Location: College and Career Training Center – Room P15
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
This course prepares students for an entry level job as a Pharmacy Technician. Upon completion of this course students will be prepared to take the National Pharmacy Technician Exam, after which they would be a Certified Pharmacy Technician. Students will also be eligible to register with the California State Board of Pharmacy and become a registered pharmacy technician upon successful program completion and a background check with the DOJ.

Robotics & Autonomous Systems (Level 4)
Instructor: Chung
Days: Monday/Wednesday
Times 5:30 – 8:00 P.M.
Location: Capistrano Valley High School – Room B9
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
This course focuses on computer programs and robotics systems to solve real world mathematics problems using computational thinking, such that they will form generalized algorithmic solutions to model various situations with mathematics. This course requires students to identify patterns and overarching concepts, generalizing them in mathematical terms while connecting the content with the Career Technical Education's sector, Engineering and Design. Students then test their solutions, verifying computationally or graphically that the answers are reasonable in relation to the situation. In these programs, students identify variables, constraints, initial inputs or conditions, and create algorithms, which incorporate logical progressions of processes culminating in outputs or actions.

Robotics Design & Fabrication (Level 2)
Instructor: O'Brien
Days: Tuesdays/Thursdays
Times 4:00 – 6:30 P.M.
Location: Capistrano Valley High School – Room B9
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
Students will continue their work from Robotics Fundamentals. They will continue to work in engineering teams to design, build and test increasingly complex robots. The course will illustrate the engineering design process, the importance of integrating sensors, and complex machine control, autonomous control and multi-robot systems. Students will solve challenges using physical robots and computer simulations. Students will explore additional hardware and software solutions to robotics problems. Students will learn advanced hardware and software techniques, as well as the mathematics and physics to understand them. Students will work in teams to complete a larger design problem and participate in local and regional competitions. Special attention will be paid to the design process and its communication through both presentation and documentation. Students will keep Engineering Notebooks in which they will journal daily their successes and failures throughout the course.

Robotics Fundamentals (Level 1)
Instructor: O'Brien
Days: Tuesdays/Thursdays
Times 4:00 – 6:30 P.M.
Location: Capistrano Valley High School – Room B9
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
This course is designed to advance skills in computation, problem solving, and critical thinking by designing and programming robots. Students will use a CAD program to design either an Arduino-based or microcontroller-based robot, then will use an object-oriented programming language typically used in the robotics industry such as C++ (or Arduino, a slightly modified version of C++), Java, or Python to control it. Students must be able to analyze their code and link each step in their code to their robot's actions in order to complete a given task successfully. Students must use various text resources both online and in print to properly use and develop functions within their code. Throughout the course, students will gain an understanding of how form and design has a direct influence on function, as well as the process of creating a robot from design and prototyping, to building, and to programming.

Robotics System Integration (Level 3)
Instructor: Chung
Days: Monday/Wednesday
Times 5:30 – 8:00 P.M.
Location: Capistrano Valley High School – Room B9
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
Honors Weighted
Robotics Systems Integration is an advanced course for students who have participated in FIRST Robotics in prior years. This is a traveling competitive STEM team representing our Engineering/Manufacturing and Design CTE Pathway. This laboratory-based integrated course is designed to support and facilitate second-year student participation in the global FIRST Robotics Competition. Students will build upon foundational knowledge from the prior course by performing advanced level work in the areas of engineering, manufacturing, programming, and team project management. The student- centric design of the course and physical classroom lab environment promotes collaborative learning in small teams and advanced personal skill development in specialty areas while allowing all students to be involved with all aspects of this multi-faceted competitive team project. Students in this course will have the opportunity to lead, guide, and mentor first-year students in the Robotics Team year 1 and 2 course while embracing a learning-by-doing approach.

Surgical Technician, Basics
Instructor: Jones
Days: Monday/Wednesday
Times 4:00 – 6:30 P.M.
Location: Capistrano Valley High School – Room P18
UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)
Length: Yearlong - 10 Credits
Placement Guidelines: Grades 9 – 12
This course is an introduction to the surgical technology profession. Topics include scope of practice, law and ethics, patient confidentiality and safety practices as applied during delivery of patient care during surgery. Students will learn the fundamentals of working in an operating room, peri-operative case management with an emphasis on pre-operative preparation, sterile environment, and instrumentation/equipment function.

ADDITIONAL INFORMATION

Adult Course Offerings

Adults interested in registering for courses must register online. Only online registration will be accepted for all classes. Registration instructions are located on our website www.CCAdvantage.org under "Adult Students". All classes are held at the College and Career Advantage Training Center, 26301 Via Escolar, Mission Viejo, CA 92692. Adult Education not-for-credit classes are tuition free. Additional costs for uniforms and textbooks will be required.

Cyber Security
Fall or Spring Session
Days: Monday and Wednesday
Times: 4:00 PM – 6:30 PM
Location: SCHS/S3
Prepare for a job in cybersecurity. Learn digital security skills used in the networking and information communications industry. This course is designed to provide the student with the essential knowledge and skills necessary to become employed as an entry-level cybersecurity technician. Must have high school diploma or G.E.D. to enter the program.

Dental Assistant
Fall or Spring Session
Days: Monday – Thursday
Times: 8:00 AM – 2:30 PM
Location: CCATC/P19
Prepares students for a job as a dental assistant in both front and back office. Students will learn chair-side assisting in general dentistry procedures. Classroom instruction includes dental terminology, dental x-ray, and identification of dental instruments, sterilization procedures and preparation of dental materials, dental billing and front office procedures. An x-ray certificate will be issued upon completion of this class. 120 hours of required internship at local dental offices will be arranged with the instructor.

Emergency Medical Technician
Fall or Spring Session
Days: Tuesday and Thursday
Times: 8:00 AM – 1:00 PM
Location: CCATC/P17
Prepare for a career as an Emergency Medical Technician performing critical interventions to patients in need. Students will learn pre-hospital care skills, introduction to emergency medical care, triage, human anatomy, lifting and transporting patients, airway management, and ambulance operations. Twenty-four (24) clinical internship hours are required. Students will be eligible to participate in the National Registry of Emergency Medical Technicians.

Hotel Hospitality & Culinary
Fall or Spring Session (8-Week Session)

Days: Tuesday and Thursday
Times: 9:00 AM – 12:00 PM
Location: CCATC/P14
Prepare for a career in the Culinary and Hotel industry. This course includes hands-on instruction and skills training to prepare students for an entry-level position in the Hotel/Restaurant industry. This course serves the economic and workforce development needs of both the local and global community.

Medical Assistant
Fall or Spring Session
Days: Monday – Thursday
Times: 8:00 AM – 2:30 PM
Location: CCATC/P16
Prepare for a career as a Medical Assistant or to continue training toward a nursing profession. Learn vital signs, injections, venipuncture, minor office procedures, sterilization, EKG's, infection control, basic in-office laboratory testing, billing, terminology, records filing, and reception. Medical Assistants work in all areas in a physician's office or medical groups.144 hours of required internship at local doctor's offices or health care centers will be arranged with the instructor.

Pharmacy Technician
Fall or Spring Session
Days: Monday – Thursday
Times: 8:00 AM – 3:00 PM
Location: CCATC/P15
Externship of 240 hours is required after completion of classwork
Learn the procedures and techniques used to become a Pharmacy Technician in a hospital or retail setting. Instruction includes dosage calculations, over-the-counter medications, labeling of medications, types of medications, pharmacy procedures, HIPPA requirements and IV preparation. To take the National Exam for Pharmacy Technician Certification, students must pass a background check performed by the State Board of Pharmacy and hold a high school diploma or GED.

Surgical Technologist
Fall and Spring Session (Must complete both sessions) 27-Weeks.
Days: Monday – Thursday
Times: 8:00 AM – 3:30 PM
Location: CCATC/P18
Externship of 500 hours is required after completion of classwork
This class trains students to become a Surgical Technologist working alongside a surgeon in an operating room. Learn instrument tray set-up for various surgeries, back table preparation, techniques and procedures used during surgeries, anatomy and physiology, operating room preparation and instruments.

CAREER TECHNICAL EDUCATION

MIDDLE SCHOLL

INVESTIGATION LAB MODULES

- Animation
- Audio Production
- Biotechnology & Genetics
- Business & Finance
- CNC Lathe
- CNC Mill
- Computer Programming
- Digital Photography
- Engineering
- Graphic Design

- Hospitality
- Laser Engraver
- Mastercam
- Plant Science
- Presentation Technology
- Robotics
- Robotics Engineering
- Solidworks & 3D Printing
- Totally Trebuchet

CCA Classroom Locations

(Map not to scale)

COLLEGE AND CAREER ADVANTAGE
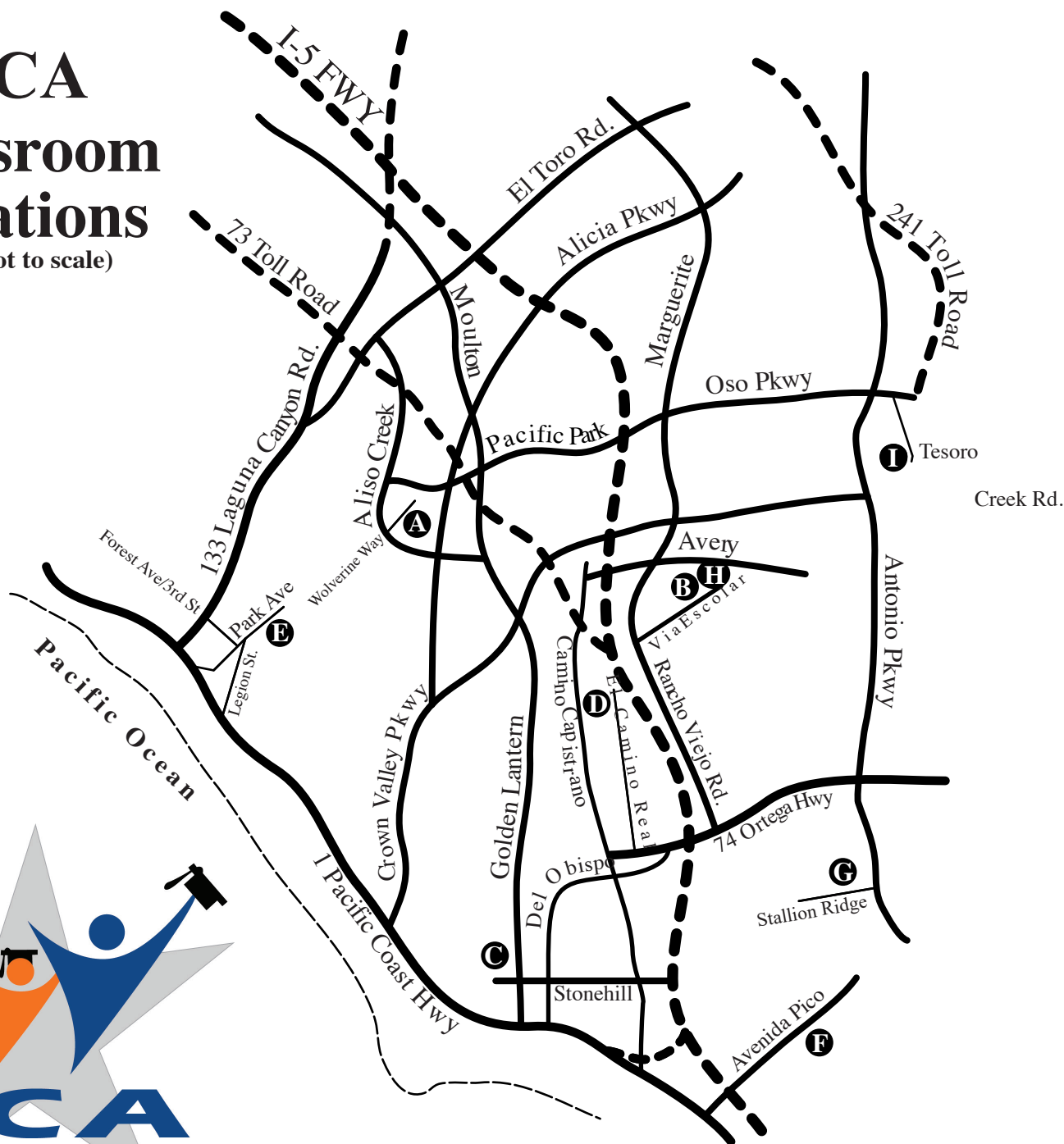
Ⓐ Aliso Niguel High School (**ANHS**)
28000 Wolverine Way • Aliso Viejo, CA 92656
(949) 831-5590

Ⓑ Capistrano Valley High School (**CVHS**)
26301 Via Escolar • Mission Viejo, CA 92692
(949) 364-6100

Ⓒ Dana Hills High School (**DHHS**)
33333 Golden Lantern • Dana Point, CA 92629
(949) 496-6666

Ⓓ Union High School (**UHS**)
31422 Camino Capistrano • San Juan Capistrano, CA 92675
(949) 489-7216

Ⓔ Laguna Beach High School (**LBHS**)
625 Park Ave. • Laguna Beach, CA 92651
(949) 497-7750

Ⓕ San Clemente High School (**SCHS**)
700 Avenida Pico • San Clemente, CA 92673
(949) 492-4165

Ⓖ San Juan Hills High School (**SJHHS**)
29211 Stallion Ridge • San Juan Capistrano, CA 92675
(949) 234-5900

Ⓗ College and Career Campus (**CCC**)
26301 Via Escolar • Mission Viejo, CA 92692
(949) 234-9464

Ⓘ Tesoro High School (**THS**)
1 Tesoro Creek Rd. • Las Flores, CA 92688
(949) 234-5310