

# COLLEGE AND CAREER ADVANTAGE

Career Technical Education

2022-2023

## Course Catalog



**CCA**  
COLLEGE AND CAREER ADVANTAGE

33122 Valle Road, San Juan Capistrano, CA 92675  
[www.ccadvantage.org](http://www.ccadvantage.org)  
(949) 234-9464



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33122 Valle Road, San Juan Capistrano, CA 92675

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[www.ccadvantage.org](http://www.ccadvantage.org)

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**Laguna Beach Unified School District**

**College and Career Advantage**  
**Career Technical Education**  
**2022-2023**

**Table of Contents**

Program Information..... 1  
Common Questions..... 2  
CTE Pathways ..... 3

**High School Course Descriptions**

Aliso Niguel High School..... 5  
Capistrano Valley High School..... 19  
Dana Hills High School..... 30  
Laguna Beach High School..... 42  
San Clemente High School ..... 56  
San Juan Hills High School ..... 69  
Tesoro High School..... 83  
Union High School..... 94  
Regional After-School Course Listing..... 97

**Additional Information**

Adult Course Offerings ..... 108  
Middle School Course Information ..... 110  
School Site Locations Map..... 113

# 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.

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**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](http://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 Academic Advisor located in the Guidance office of their high school. 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

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*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

- CABINETS, 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**
- **Architectural Design Pathway**
- **AP Computer Science**
- **Automotive Mechanics**
- **Automotive Technology**
- **Biotechnology**
- **Culinary Arts Pathway**
- **Digital Photography**
- **Engineering Pathway**
- **Forensic Science**
- **Multimedia Design**
- **Rapid Prototype**
- **Sports Medicine**
- **Stagecraft Pathway**
- **Theatrical Production**
- **TV Broadcast**
- **Journalism**
- **Video Production Pathway**

To register for classes contact your High School Counselor

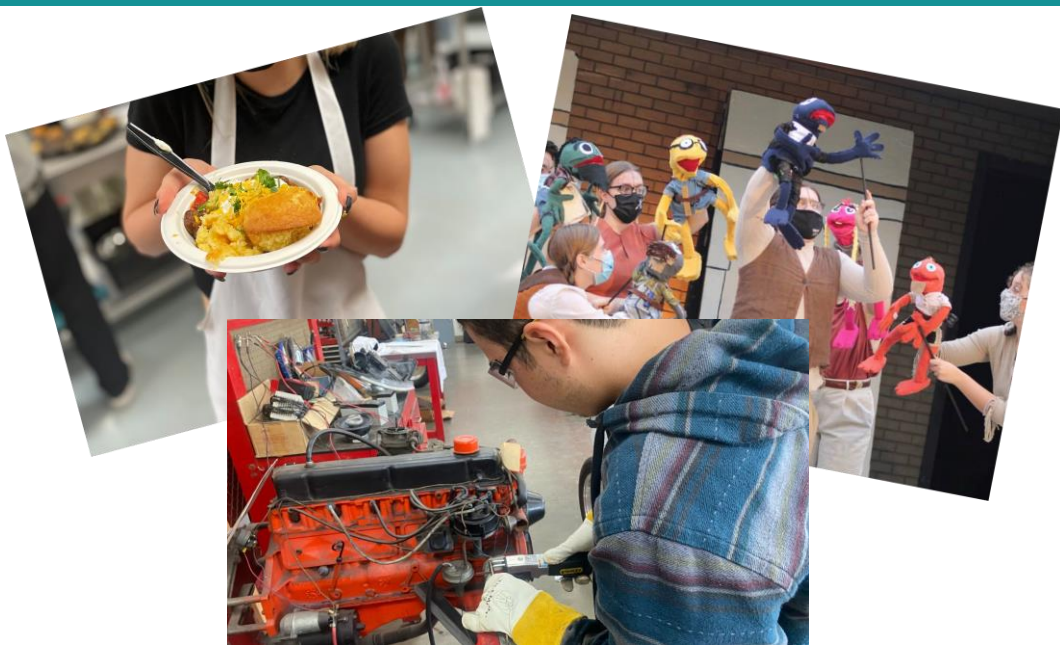
For more information contact:

COLLEGE AND CAREER ADVANTAGE

WWW.CCADVANTAGE.ORG

(949)234-9464

# Aliso Niguel 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**







## 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
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><u>“c” – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science</li> </ul> <p><u>“d” - Requirement</u></p> <ul style="list-style-type: none"> <li>• Biotechnology</li> <li>• Emergency Medical Technician</li> <li>• Forensic Science</li> <li>• Sports Medicine</li> </ul> <p><u>“f” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Actors’ Repertory</li> <li>• Architectural Design</li> <li>• Culinary Arts</li> <li>• Digital Photography</li> <li>• Fashion Design</li> <li>• Multimedia Design</li> </ul>	<p><u>“f” – Requirement (continued)</u></p> <ul style="list-style-type: none"> <li>• Rapid Prototype</li> <li>• Stagecraft/ Stagecraft Intro</li> <li>• TV Broadcast Journalism</li> <li>• Video Production</li> </ul> <p><u>“g” - Requirement</u></p> <ul style="list-style-type: none"> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Cybersecurity</li> <li>• Dental Assisting I</li> <li>• Fire Science</li> <li>• Hotel/ Hospitality Careers</li> <li>• Medical Assisting</li> <li>• Medical Core</li> <li>• Medical/Hospital Careers</li> <li>• Medical Innovation, Research &amp; Entrepreneurship</li> <li>• Pharmacy Clerk</li> <li>• Pharmacy Technician</li> <li>• Robotics &amp; Autonomous Systems</li> <li>• Robotics Design &amp; Fabrication</li> <li>• Robotics Fundamentals</li> <li>• Robotics System Integration</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician Advanced</li> </ul>

# Honors Weighted CTE Courses



## ALISO NIGUEL HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 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  
Automotive Technology\*\*  
AP Computer Science  
Biotechnology  
Business Management/Entrepreneurship\*  
Digital Photography  
Emergency Medical Technician\*  
Fashion Design\*  
Medical Core\*  
Medical/ Hospital Careers\*  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics & System Integration\*  
Robotics & Autonomous Systems\*  
Stagecraft  
TV Broadcast Journalism  
Video Production  
Veterinary Technician Advanced\*

# Aliso Niguel High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

**Take this course in High School:**

**Articulates with this course:**

Course Title	Saddleback College Course Title
Actors' Repertory	Acting – TA I
Architectural Design	Introduction to CAD – ARCH 50
Auto Mechanics	Automotive Fundamentals – AUTO 100
Automotive Technology	Automotive Fundamentals – AUTO 100
Business	Entrepreneurship - BUS 160
Management/Entrepreneurship*	Culinary Arts – FN 101
Culinary Arts	Fundamentals – FN244 Digital
Culinary Baking and Pastry	Photography I – PHOT 50
Digital Photography	3D Computer Aided Design-MFG 204
Engineering Principles	Introduction to CAD-DR 50
Engineering & MFG Tech	Intro to Fashion Industry and Careers - FASH 101
Fashion Design*	Into to Computer Graphics- GD147
Multimedia Design Honors	3D CAD Solidworks- MFG 204
Rapid Prototype	Introduction to Athletic Training – KNES 53
Sports Medicine	Television Production I – CTVR 124
TV Broadcast Journalism	Video Production Basics – CTVR 101
Video Production	
Course Title	Santa Ana College Course Title
Fire Science*	Fire Technology 101
Course Title	Coastline College Course Title
Business	Small Business Operations
Management/Entrepreneurship*	Digital Photography w/photo shop-DGA C131
Digital Photography	Medical Office – C145
Medical Core*	
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

## COURSE DESCRIPTIONS

### **Actors Repertory (ANHS)**

**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

*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.

### **AP Computer Science (ANHS)**

**Instructor: Ruhlen**

**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 (ANHS)**

**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

*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,

### **Architectural Design (ANHS) - 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 (ANHS)**

**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 (ANHS)**

**Instructor: Mack**

**Credits: 5/semester**

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 and Santa Ana 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 (ANHS)**

**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 and Santa Ana 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 (ANHS)**

**Instructor: Murphy**

**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 and Santa Ana 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.

### **Consumer Auto Mechanics (ANHS)**

**Instructor: Mack**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 10 - 12 (Designed for 10th)

*Articulates with Saddleback College*

Emphasis is on the development of automotive basic fundamentals. Topics include shop safety, shop practices, automotive history and basic chassis construction, proper handling and care of basic hand tools, proper operating techniques of power tools and equipment. Students will explore the many aspects of the automotive industry as a career as well as consumer awareness and the basic operating principles of major components and systems of the automobile, that include the engine, transmission, brakes systems, steering, suspension and vehicle maintenance schedules. Course will include Academic and Practical (hands on) applications via modules and shop vehicles.

### **Culinary Arts (ANHS)**

**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 9 - 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.

### **Culinary Arts, Advanced (ANHS)**

**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 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.

### **Culinary Baking (ANHS)**

**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. Students will continue to use food service tools with an emphasis on baking and pastry. They will continue to explore various ingredients and cooking techniques through lab-based recipes and meals. Recipes are tested for flavoring and seasoning, and then edited based on results in the test kitchen. Students will learn basics baking and cooking principles and techniques of English, French and other International Cuisines. Baking, Pastry and Dessert techniques will be demonstrated and practiced. Students will develop a working knowledge of the elements involved in establishing and managing a food service operation. Students will employ menu planning, purchasing, pricing, and

## **Culinary Baking – Continued**

food preparation techniques designed to maximize guest satisfaction and financial profitability. Students will be exposed to the Hospitality and Tourism Industry through exploration of the front of the house and back of the house careers. Students will also have the opportunity to cater both on and off-campus special events. Students will experience all aspects of the food service industry by rotating through a variety of jobs in both the front and back of the house.

## **Digital Photography (ANHS)**

**Instructor: Ruhlen**

**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 Principles (ANHS)**

**Instructor: Solorzano**

**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*

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.

## **Forensic Science (ANHS)**

**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,



### **Forensic Science – Continued**

question documents, hair and serology. Students will learn the roles and responsibilities of investigators, coroners, crime scene technicians and forensic scientists.

### **Hotel and Hospitality Careers (ANHS)**

**Instructor: Boyle**

**Credits: 5/semester**

UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)

Length: Year - 10 Credits - Internship during Class Time

Placement Guidelines: Grades: 11 - 12 (By interview only)

This course is for students interested in working in the Hotel and Tourism industries. Students train in the fundamental concepts of hospitality and the hotel and lodging industry. Students learn about career paths and employment opportunities in the industry and train in guest relation practices. The course of study includes size and economic impact of industry, trends, diversity, guest needs, types of lodging businesses and marketing and promotion methods. Additional topics include food safety and sanitation, food and beverage, front and back of the house functions, front office, housekeeping, security, engineering, marketing and sales, human resources and legal and ethical considerations. Topics include the history of hospitality, employability skills, the travel and tourism industry, customer service, safety, communication skills, and a comprehensive breakdown of all positions within a hotel. Internship assignment is arranged through the instructor.

### **Multimedia Design (ANHS)**

**Instructor: Ruhlen**

**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.

### **Rapid Prototype (ANHS)**

**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

This course includes topics on prototype fundamentals, visualization and creation of 3D computer-generated models and their applications in manufacturing, multimedia,

### **Rapid Prototype - Continued**

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 (ANHS)**

**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

*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.

### **Stagecraft, Intro (ANHS)**

**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

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 (ANHS)**

**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 (ANHS)**

**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 (ANHS)**

**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 (ANHS)**

**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

**Video Production – Continued**

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**
- **Automotive Mechanics**
- **Automotive Technology**
- **Digital Photography**
- **4-year Engineering Pathway**
- **Game Design**
- **Sports Medicine**
- **Pathway Stagecraft Pathway**
- **TV Broadcast**
- **Journalism**
- **Video Production**
- **Pathway**

# Capistrano Valley 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**

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





# 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
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><u>“d” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Emergency Medical Technician</li> <li>• Engineering Principles</li> <li>• Sports Medicine</li> </ul> <p><u>“f” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Actors’ Repertory</li> <li>• Advanced Video Production</li> <li>• Art of Animation</li> <li>• Digital Photography</li> <li>• Fashion Design</li> <li>• Stagecraft</li> <li>• Stagecraft Introduction</li> <li>• TV Broadcast Journalism</li> <li>• Video Production</li> </ul>	<p><u>“g” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Cybersecurity</li> <li>• Dental Assisting</li> <li>• Engineering and Manufacturing Technology</li> <li>• Engineering Design</li> <li>• Engineering Design and Development</li> <li>• Fire Science</li> <li>• Game Design</li> <li>• Hotel/Hospitality Careers</li> <li>• Medical Assisting</li> <li>• Medical Core</li> <li>• Medical Hospital Careers</li> <li>• Medical Innovation, Research &amp; Entrepreneurship</li> <li>• Pharmacy Clerk</li> <li>• Pharmacy Technician</li> <li>• Robotics Autonomous Systems</li> <li>• Robotics Design and Fabrication</li> <li>• Robotics Fundamentals</li> <li>• Robotics System Integration</li> <li>• Sports Medicine, Advanced</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician Advanced</li> </ul>

# Honors Weighted CTE Courses



## CAPISTRANO VALLEY HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 GPA points, similar to that of an AP or IB course.

### **Honors Weighted Courses Available to Capistrano Valley High School Students**

Actors' Repertory  
Art of Animation  
Advanced Video Production  
Automotive Technology\*\*  
Business Management/Entrepreneurship\*  
Digital Photography  
Emergency Medical Technician\*  
Engineering & Manufacturing Technology  
Engineering Design  
Engineering Design & Development  
Engineering Principles  
Fashion Design\*  
Game Design  
Medical Core\*  
Medical/ Hospital Careers\*  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics System Integration\*  
Robotics & Autonomous Systems\*  
Sports Medicine, Advanced  
Stagecraft  
TV Broadcast Journalism  
Video Production  
Veterinary Technician Advanced\*



# Capistrano Valley High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

<b>Take this course in High School:</b>	<b>Articulates with this course:</b>
<b>Course Title</b>	<b>Saddleback College Course Title</b>
Actors' Repertory	Acting – TA I
Art of Animation	Digital Animation- GD 150
Auto Mechanics	Automotive Fundamentals –AUTO 100
Automotive Technology	Automotive Fundamentals –AUTO 100
Business	Entrepreneurship – BUS 160
Management/Entrepreneurship*	
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
Sports Medicine	Intro to Athletic Training – KNES 53
TV Broadcast Journalism	Television Production I – CVTR 124
Video Production	Video Production Basics – CTVR 101
<b>Course Title</b>	<b>Santa Ana College Course Title</b>
Fire Science*	Fire Technology 101
<b>Course Title</b>	<b>Coastline College Course Title</b>
Art of Animation	3ds Max Fundamentals-DGA C11
Business	Small Business Operations
Management/Entrepreneurship*	
Digital Photography	Digital Photography w/photoshop-DGA C131
Medical Core*	Medical Office C145
<b>Course Title</b>	<b>Irvine Valley College Course Title</b>
Engineering Design	Intro to CAD – DR 50
	Eng. Drawing & Design – DR 101

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

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



# CAPISTRANO VALLEY HIGH SCHOOL

## COURSE DESCRIPTIONS

### **Actors Repertory (CVHS)**

**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

*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.

### **Art of Animation (CVHS)**

**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.

### **Automotive Mechanics (CVHS)**

**Instructor: Brannon**

**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 and Santa Ana 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 (CVHS)**

**Instructor: Brannon**

**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 and Santa Ana 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.

## **Digital Photography (CVHS)**

**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 (CVHS)**

**Instructor: Arslan**

**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 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 (CVHS)**

**Instructor: Arslan**

**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 (CVHS)**

**Instructor: Arslan**

**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, 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 (CVHS)**

**Instructor: Arslan**

**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

*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 (CVHS)**

**Instructor: Baker**

**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

*Articulated 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.

### **Sports Medicine (CVHS)**

**Instructor: Cleek**

**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. Please see IMPORTANT NOTICE on Page 2.

### **Sports Medicine, Advanced (CVHS)**

**Instructor: Cleek**

**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*

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,

### **Sports Medicine, Advanced – Continued**

environmental conditions, medical conditions, taping and bracing, therapeutic modalities, and physical rehabilitation. Please see IMPORTANT NOTICE on Page 2.

### **Stagecraft (CVHS)**

**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.

### **Stagecraft, Intro (CVHS)**

**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.

### **TV Broadcast Journalism (CVHS)**

**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 (CVHS)**

**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.



DANA HILLS  
HIGH SCHOOL



# CAREER TECHNICAL EDUCATION COURSES

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**





## 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 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 Dana Hills High School Students
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><u>“d” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Biotechnology</li> <li>• Emergency Medical Technician</li> <li>• Forensic Science</li> <li>• Sports Medicine</li> </ul> <p><u>“f” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Actors’ Repertory-SOCSA</li> <li>• Advanced Drama-SOCSA</li> <li>• AP2D Art &amp; Design</li> <li>• Culinary Arts</li> <li>• Dance Production-SOCSA</li> <li>• Digital Photography-SOCSA</li> <li>• Fashion Design</li> <li>• Multimedia Design-SOCSA</li> <li>• Stagecraft Intro-SOCSA</li> <li>• Theater Performer-SOCSA</li> <li>• Video Production</li> <li>• Advanced Video Production</li> </ul>	<p><u>“g” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Cybersecurity</li> <li>• Dental Assisting I</li> <li>• Fire Science</li> <li>• Hotel/ Hospitality Careers</li> <li>• Medical Assisting</li> <li>• Medical Core</li> <li>• Medical/Hospital Careers</li> <li>• Medical Innovation, Research, &amp; Entrepreneurship</li> <li>• Pharmacy Clerk</li> <li>• Pharmacy Technician</li> <li>• Robotics &amp; Autonomous Systems</li> <li>• Robotics Design &amp; Fabrication</li> <li>• Robotics Fundamentals</li> <li>• Robotics System Integration</li> <li>• Sports Medicine, Advanced</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician, Advanced</li> </ul>



# Honors Weighted CTE Courses



## DANA HILLS HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 GPA points, similar to that of an AP or IB course.

### **Honors Weighted Courses Available to Dana Hills High School Students**

Actors' Repertory  
Advanced Video Production  
AP2D Art and Design  
Automotive Technology\*  
Biotechnology  
Business Management/Entrepreneurship\*  
Digital Photography  
Emergency Medical Technician\*  
Fashion Design\*  
Forensic Science  
Medical Core\*\*  
Medical/ Hospital Careers\*\*  
Physical Therapy Aide  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics System Integration\*  
Robotics & Autonomous Systems\*  
Sports Medicine, Advanced  
Stagecraft  
Theater Performer  
Video Production  
Veterinary Technician Advanced\*

32

To Register for Classes  
Contact your High School Academic  
Advisor

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

# Dana Hills High School 2022-23 Articulated CTE Courses

## ***Earn College Credit!***

<b>Take this course in High School:</b>	<b>Articulates with this course:</b>
<b>Course Title</b>	<b>Saddleback College Course Title</b>
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
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
<b>Course Title</b>	<b>Santa Ana College Course Title</b>
Fire Science*	Fire Technology 101
<b>Course Title</b>	<b>Coastline College Course Title</b>
Business Mgmt/Entrepreneurship*	Small Business Operations
Digital Photography	Digital Photography w/Photoshop-DGA C131
Medical Core	Medical Office C145
<b>Course Title</b>	<b>Irvine Valley College Course Title</b>
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

## COURSE DESCRIPTIONS

### **Actors Repertory, SOCSA (DHHS)**

**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.

### **AP 2D Art and Design (DHHS)**

**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 10-12

*Fine Arts graduation credit for CUSD students*

*Articulates with Saddleback College; Honors Weighted*

This course is designed for students who are interested in advanced studies in digital photography and wish to develop mastery in the concept, composition, and execution of their ideas. Students must produce a minimum of 24 works of art that demonstrate 2-D design principles. AP credit is not based on a written examination, but on a portfolio that is submitted for evaluation at the end of the school year.

### **Biotechnology (DHHS)**

**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 (DHHS)**

**Instructor: Tyson**

**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 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.

### **Culinary Arts (DHHS)**

**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 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.

### **Culinary Arts, Advanced (DHHS)**

**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 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.

### **Dance Production, SOCSA (DHHS)**

**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.

### **Digital Media Art (DHHS)**

**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*

*Articulates with Saddleback College*

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 (DHHS)**

**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 (DHHS)**

**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.

### **Hotel and Hospitality Careers (DHHS)**

**Instructor: Boyle**

**Credits: 5/semester**

UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)

Length: Year - 10 Credits - Internship during Class Time

Placement Guidelines: Grades: 11 - 12 (By interview only)

This course is for students interested in working in the Hotel and Tourism industries. Topics include the history of hospitality, employability skills, the travel and tourism industry, customer service, safety, communication skills, and a comprehensive breakdown of all positions within a hotel. Internship assignment is arranged through the instructor.

### **Medical/Hospital Careers - HMO (DHHS)**

**Instructor: Garcia/Wingen**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 9-12

*Physical Science graduation credit for CUSD students*

HMO Health Sciences is an introductory course 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.



### **Medical Core - HMO (DHHS)**

**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 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.

### **Sports Medicine (DHHS)**

**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. Please see IMPORTANT NOTICE on Page 2.

### **Sports Medicine, Advanced (DHHS)**

**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*

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

### **Sports Medicine, Advanced – Continued**

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 Intro, SOCSA (DHHS)**

**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*

This course is designed to introduce students to technical and design elements in the field of theatre arts. Students will learn the skills and concepts that are associated with the technical elements of theatre. These elements include the basic industry standard career positions: lighting design, audio design, set design, set construction and 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.

### **Stagecraft, SOCSA (DHHS)**

**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

*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, SOCSA (DHHS)**

**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

*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

### **Theatrical Production - Continued**

a professional portfolio, which includes sketches, annotated research and pictures of complete design projects through the production of five (5) stage performances.

### **Video Production (DHHS)**

**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. 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.

### **Video Production, Advanced (DHHS)**

**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 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

**CAREER TECHNICAL EDUCATION  
COURSES**

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
- Medical Core
- Multimedia Design
- Multimedia Production
- Musical Theatre
- Theatre I
- Theatre II
- Theatre Performance

# Laguna Beach High School



## 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

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





# UC “a-g” Approved CTE Courses

## 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 San Clemente High School Students
<p><b>a</b> – History/Social Science</p> <p><b>b</b> – English</p> <p><b>c</b> – Mathematics</p> <p><b>d</b> – Laboratory Science</p> <p><b>e</b> – Language other than English</p> <p><b>f</b> – Visual and Performing Arts</p> <p><b>g</b> – College-prep Elective</p> <p><u>“c” – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science A</li> </ul> <p><u>“d” – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Emergency Medical Technician</li> </ul> <p><u>“f” – Requirement</u></p> <ul style="list-style-type: none"> <li>• 3D Media Design</li> <li>• AP Studio Art – 2D</li> <li>• AP Studio Art – Drawing</li> <li>• Art Entrepreneurship</li> <li>• Art Production 1</li> <li>• Art Production 2</li> <li>• Dance Company</li> <li>• Dance II</li> <li>• Dance III</li> <li>• Dance IV</li> </ul>	<p><u>“f” – Requirement continued</u></p> <ul style="list-style-type: none"> <li>• Multimedia Design</li> <li>• Multimedia Production</li> <li>• Musical Theatre</li> <li>• Fashion Design</li> <li>• Theatre 1</li> <li>• Theatre 2</li> <li>• Theatre Performance</li> </ul> <p><u>“g” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Administration of Justice</li> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Culinary Hotel/Hospitality</li> <li>• Cybersecurity</li> <li>• Dental Assisting</li> <li>• Fire Science</li> <li>• Lifeguarding</li> <li>• Medical Assistant</li> <li>• Medical Core</li> <li>• Medical Hospital/Careers</li> <li>• Medical Innovation, Research &amp; Entrepreneurship</li> <li>• Robotics Fundamentals</li> <li>• Robotics &amp; Autonomous Systems</li> <li>• Robotics Design &amp; Fabrication</li> <li>• Robotics</li> <li>• Pharmacy Technician</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician, Advanced</li> </ul>



# Honors Weighted CTE Courses



## LAGUNA BEACH HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 GPA points, similar to that of an AP or IB course.

### **Honors Weighted Courses Available to Laguna Beach High School Students**

AP Computer Science A  
AP Computer Science Principles  
AP2D Art and Design  
AP Studio Art Drawing  
Automotive Technology\*  
Business Management/Entrepreneurship\*  
Emergency Medical Technician\*  
Fashion Design\*  
Medical Core\*\*  
Medical/ Hospital Careers\*\*  
Multimedia Design  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics System Integration\*  
Robotics & Autonomous Systems\*  
Veterinary Technician Advanced\*

# Laguna Beach High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

#### **Take this course in High School:**

##### **Course Title**

3D Media Design  
 AP Computer Science A  
 Automotive Mechanics\*  
 Automotive Technology\*  
 Business Mgmt/Entrepreneurship\*  
 Culinary Arts  
 Fashion Design\*  
 Multimedia Design Honors  
 Multimedia Production  
 Theatre 2

##### **Course Title**

Automotive Technology\*  
 Fire Science\*

##### **Course Title**

Business Mgmt/Entrepreneurship\*  
 Medical Core

#### **Articulates with this course:**

##### **Saddleback College Course Title**

3D Parametric Modeling Solidworks – DR 200  
 Business Programming- JAVAB – CIMP 7A  
 Automotive Fundamentals – AUTO 100  
 Automotive Fundamentals – AUTO 100  
 Entrepreneurship – BUS 160  
 Culinary Principles I – FN 240  
 Intro to Fashion Careers – FASH 101\  
 Intro to Computer Graphics – GD147  
 Intro to Screen Printing – GC 63/ART63  
 Fundamentals of Acting – TA1

##### **Santa Ana College Course Title**

Auto Tech, Maintenance 002  
 Auto Tech, Essentials 006  
 Fire Technology 101

##### **Coastline College Course Title**

Small Business Operations  
 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

## 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 from 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 at **SCHS**

# San Clemente High School

- **3D Media Design**
- **AP Computer Science**
- **Architectural Design**
- **Art of Animation**
- **Automotive Academy**
- **Catering & Event Planning**
- **CISCO IT Pathway**
- **Culinary Arts**
- **Digital Photography**
- **Engineering Pathway**
- **Game Design**
- **Rapid Prototype**
- **Robotics Pathway**
- **Stagecraft**
- **Theater Performer**
- **Video Production Pathway**



## 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**

To register for classes  
contact your High School  
Counselor

For more information  
contact:

COLLEGE AND CAREER  
ADVANTAGE

[WWW.CCADVANTAGE.ORG](http://WWW.CCADVANTAGE.ORG)

(949)234-9464





# 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 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 Clemente High School Students
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><u><b>“c”</b> – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science</li> <li>• EMT</li> <li>• Engineering Principles</li> </ul> <p><u><b>“f”</b> – Requirement</u></p> <ul style="list-style-type: none"> <li>• 3D Media Design</li> <li>• Architectural Design</li> <li>• Art of Animation</li> <li>• Actors’ Repertory</li> <li>• Culinary Arts</li> <li>• Digital Photography</li> <li>• Fashion Design</li> <li>• Stagecraft</li> <li>• Theater Performer</li> <li>• Theater Production</li> <li>• Video Production</li> </ul>	<p><u><b>“g”</b> – Requirement</u></p> <ul style="list-style-type: none"> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Catering &amp; Event Planning</li> <li>• CISCO Networking</li> <li>• Cybersecurity</li> <li>• Dental Assisting</li> <li>• Engineering Design &amp; Development</li> <li>• Fire Science</li> <li>• Game Design</li> <li>• Medical Assisting</li> <li>• Medical Core</li> <li>• Medical/Hospital Careers</li> <li>• Medical Innovation, Research &amp; Entrepreneurship</li> <li>• Hotel/ Hospitality Careers</li> <li>• Pharmacy Clerk</li> <li>• Pharmacy Technician</li> <li>• Robotics Fundamentals</li> <li>• Robotics Design &amp; Fabrication</li> <li>• Robotics System Integration</li> <li>• Robotics &amp; Autonomous Design</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician, Advanced</li> </ul>



# Honors Weighted CTE Courses



## SAN CLEMENTE HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 GPA points, similar to that of an AP or IB course.

## Honors Weighted Courses Available to San Clemente High School Students

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

58

To Register for Classes  
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Advisor

For more information contact:  
COLLEGE AND CAREER ADVANTAGE  
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(\*)- Denotes an After-School class  
Please check location

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

# San Clemente High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

Take this course in High School:	Articulates with this course:
<b>Course Title</b>	<b>Saddleback College Course Title</b>
3D Media Design	3D Parametric Modeling Solidworks – DR200
Architectural Design	Introduction to CAD- ARCH 50
Art of Animation	Digital Animation – GD 150
Auto Mechanics	Automotive Fundamentals - AUTO 100
Automotive Technology	Automotive Fundamentals – AUTO 100
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 240
Digital Photography	Digital Photography I – PHOT 50
Engineering Design/Principles	3D Computer Aided Design – MFG 204
Engineering & MFG Tech	Introduction to CAD-DR 50
Fashion Design*	Intro to Fashion Careers - FASH 101
Game Design	Into to Computer and Video Game Design-CIMP 230
Intro to Automotive Mechanics	Automotive Fundamentals – AUTO 100
Rapid Prototype	3D CAD Solidworks- MFG 204
Video Production	Video Production Basics - CTVR 101
<b>Course Title</b>	<b>Santa Ana College Course Title</b>
Fire Science*	Fire Technology 101
<b>Course Title</b>	<b>Coastline College Course Title</b>
Art of Animation	3ds Max Fundamentals-DGA C121
Business Mgmt/Entrepreneurship*	Small Business Operations
Digital Photography	Digital Photography w/Photoshop-DGA C131
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***



# SAN CLEMENTE HIGH SCHOOL

## COURSE DESCRIPTIONS

### **3D Media Design (SCHS)**

**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*

*Articulates with Saddleback College; Honors Weighted*

This course is concerned with visualization and creation of 3 DIMENSIONAL computer-generated models and their applications in today's manufacturing, multimedia, communications, and publishing industries. Students will be instructed in the principles of 3 DIMENSIONAL modeling using state-of-the-art modeling software. In a laboratory setting, students will have an opportunity to practice the strategies and methods commonly used in creating and solving 2 Dimensional and 3 DIMENSIONAL geometric problems. Students will be introduced to a variety of 3 DIMENSIONAL model applications as they are used in illustration, engineering, design, documentation drawing, entertainment, and animation. In addition to developing a working knowledge of 3 DIMENSIONAL terminology and concepts, each student will learn how to create a variety of 3 DIMENSIONAL geometric models from technical drawings, sketches, real models and written descriptions. This course aligns with and/or incorporates the State Occupational Content Standards, State Language Arts Standards and Career Performance Standards.

### **Architectural Design (SCHS)**

**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

*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 (SCHS)**

**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

*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 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.

### **Art of Animation (SCHS)**

**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*

*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.

### **Advanced Diagnostics – Auto Academy (SCHS)**

**Instructor: Self**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 9 – 12

The third year course 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,



### **Advanced Diagnostics – Auto Academy - Continued**

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.

### **Automotive Mechanics Intro – Auto Academy (SCHS)**

**Instructor: Selff**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 9 - 12

This course 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.

### **Automotive Technology – Auto Academy (SCHS)**

**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*

Automotive Technology is a 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 drive train 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.

### **Catering and Event Planning (SCHS)**

**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 (SCHS)**

**Instructor: O'Rourke**

**Credits: 5/semester**

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 (SCHS)**

**Instructor: O'Rourke**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 9 - 12

*Articulates with Saddleback College*

This 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 (SCHS)**

**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

*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 (SCHS)**

**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.

### **Engineering Design & Development (SCHS)**

**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*

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 Principles (SCHS)**

**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 (SCHS)**

**Instructor: Bryan**

**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

*Articulated 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.

## **Rapid Prototype (SCHS)**

**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

This course is concerned with 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. In a laboratory setting, students will have an opportunity to 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 as they are used in illustration, engineering, design, documentation drawing, entertainment, and animation. In addition to developing a working knowledge of 3D terminology and concepts, each student will learn how to create a variety of 3D geometric models from technical drawings, sketches, real models and written descriptions.

## **Robotics Design & Fabrication (SCHS)**

**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 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 (SCHS)**

**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

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 (SCHS)**

**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 is designed to introduce students to technical and design elements in the field of theatre arts. Students will learn the skills and concepts that are associated with the technical elements of theater. These elements include the basic industry standard

### **Stagecraft - Continued**

career positions: lighting design, audio design, set design, set construction and 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.

### **Theater Performer (SCHS)**

**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 (SCHS)**

**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 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

## Offered at SJHHS

- Accounting
- Actors' Repertory
- Art of Graphic Design
- Biotechnology
- Building & Industrial Trades Pathway
- Criminal Psychology
- Dance Performance
- Digital Photography
- Emergency Medical Responder
- Forensic Science
- Graphic Production Technology
- Intro to Business
- Medical/ Hospital Careers
- Multimedia Design
- Sports Medicine
- Stagecraft Pathway
- Theatrical Production
- TV Broadcast Journalism
- Video Production Pathway
- Virtual Enterprise Pathway

To register for classes contact your High School Counselor

For more information contact:

COLLEGE AND CAREER ADVANTAGE

WWW.CCADVANTAGE.ORG

(949)234-9464

# San Juan 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







## 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
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><b>“d” – Requirement</b></p> <ul style="list-style-type: none"> <li>• Biotechnology</li> <li>• Emergency Medical Technician</li> <li>• Forensic Science</li> <li>• Sports Medicine</li> </ul> <p><b>“f” – Requirement</b></p> <ul style="list-style-type: none"> <li>• Actors’ Repertory</li> <li>• AP 2D Art &amp; Design</li> <li>• Art of Graphic Design</li> <li>• Dance Performance</li> <li>• Digital Photography</li> <li>• Fashion Design</li> <li>• Graphic Production Technologies</li> <li>• Multimedia Design</li> <li>• Stagecraft</li> <li>• Stagecraft, Intro</li> <li>• Theatrical Production</li> <li>• TV Broadcast Journalism</li> <li>• Video Production</li> </ul>	<p><b>“g” – Requirement</b></p> <ul style="list-style-type: none"> <li>• Accounting</li> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Building and Industrial Trades Academy I, II &amp; III</li> <li>• Business Management/Entrepreneurship</li> <li>• Criminal Psychology</li> <li>• Cybersecurity</li> <li>• Dental Assisting</li> <li>• Fire Science</li> <li>• Hotel/ Hospitality Careers</li> <li>• Medical Core</li> <li>• Medical/ Hospital Careers</li> <li>• Pharmacy Clerk</li> <li>• Robotics Fundamentals</li> <li>• Robotics Design and Fabrication</li> <li>• Robotics Systems Integration</li> <li>• Robotics &amp; Autonomous Systems</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician Advanced</li> <li>• Virtual Enterprise Intro</li> <li>• Virtual Enterprise II</li> </ul>

# Honors Weighted CTE Courses



## SAN JUAN HILLS HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 GPA points, similar to that of an AP or IB course.

### **Honors Weighted Courses Available to San Juan Hills High School Students**

Accounting  
Actors' Repertory  
Art of Graphic Design  
Automotive Technology\*  
Biotechnology  
Business Management/Entrepreneurship\*  
Criminal Psychology  
Dance Performance  
Digital Photography  
Emergency Medical Technician\*  
Fashion Design\*  
Forensic Science  
Graphic Production Technologies  
Medical Core\*  
Medical/Hospital Careers\*\*  
Multimedia Design  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics System Integration\*  
Robotics & Autonomous Systems\*  
Stagecraft  
Theater Production  
TV Broadcast Journalism  
Video Production  
Virtual Enterprise  
Virtual Enterprise II  
Veterinary Technician Advanced\*

71

To Register for Classes  
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Advisor

For more information contact:  
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(\*)- Denotes an After-School class  
Please check location

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

# San Juan Hills High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

<b>Take this course in High School:</b>	<b>Articulates with this course:</b>
<b>Course Title</b>	<b>Saddleback College Course Title</b>
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	Entrepreneurship - BUS 160
Mgmt/Entrepreneurship*	
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
<b>Course Title</b>	<b>Santa Ana College Course Title</b>
Fire Science*	Fire Technology 101
<b>Course Title</b>	<b>Coastline College Course Title</b>
Art of Graphic Design	Introduction to Adobe Premier-DGA C121
Business	Small Business Operations
Mgmt/Entrepreneurship*	
Medical Core*	Medical Office C145
Multimedia Production	Digital Media Design Principles –DGA C135
<b>Course Title</b>	<b>Irvine Valley College Course Title</b>
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

## COURSE DESCRIPTIONS

### **Accounting (SJHHS)**

**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 & Coastline Community 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 (SJHHS)**

**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

*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.

## **AP 2D Art and Design (SJHHS)**

**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 10-12

*Fine Arts graduation credit for CUSD students*

*Articulates with Saddleback College, Honors Weighted*

This course is designed for students who are interested in advanced studies in digital photography and wish to develop mastery in the concept, composition, and execution of their ideas. Students must produce a minimum of 24 works of art that demonstrate 2-D design principles. AP credit is not based on a written examination, but on a portfolio that is submitted for evaluation at the end of the school year.

## **Art of Graphic Design (SJHHS)**

**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 (SJHHS)**

**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 (SJHHS)**

**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 (SJHHS)**

**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.

## **Criminal Psychology (SJHHS)**

**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 Psychology - Continued**

criminal behavior in order to prepare students for possible careers in forensic psychology or the criminal justice system.

### **Dance Performance I (SJHHS)**

**Instructor: Calder**

**Credits: 5/semester**

Length: Year - 10 Credits

Placement Guidelines: Grades 9 - 12

*P.E. 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 II (SJHHS)**

**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*

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 (SJHHS)**

**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 (SJHHS)**

**Instructor: Bennett**

**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 (SJHHS)**

**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 (SJHHS)**

**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/Hospital Careers (SJHHS)**

**Instructor: TBD**

**Credits: 5/semester**

UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)

Length: Semester - 10 Credits - Internship during Class Time

Placement Guidelines: Grades 10 - 12 (Age 16+)

*Biological Science graduation credit for CUSD students*

This course is designed to prepare students for employment opportunities in health care facilities in the areas of therapeutic, diagnostic, and supportive services (radiology, laboratory, respiratory, central supply, pharmacy, medical records). Through classroom instruction, and on-the-job training in medical facilities and some local hospitals, students will receive training, including CPR certification, that will prepare and enable them to secure entry-level employment or pursue advanced training. Internship participation requires one form of ID. Please see IMPORTANT NOTICE on Page 2.

## **Multimedia Design (SJHHS)**

**Instructor: Norgren/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 10 – 12

*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

### **Multimedia Design – 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.

### **Sports Medicine (SJHHS)**

**Instructor: Bennett**

**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. Please see IMPORTANT NOTICE on Page 2.

### **Stagecraft, Intro (CVHS)**

**Instructor: Graff/Skoien**

**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 (SJHHS)**

**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 (SJHHS)**

**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

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 (SJHHS)**

**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. 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 (SJHHS)**

**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

### **Video Production - Continued**

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 (SJHHS)**

**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 II (SJHHS)**

**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 Pathway
- Business Management & Entrepreneurship
- Chemistry & Environmental Engineering
- Child/Adolescent Literature
- Commercial Music
- Digital Photography
- Educational Psychology
- Medical Core
- Multimedia Design
- Sports Medicine
- Stagecraft Pathway
- Theatrical Production
- TV Broadcast Journalism
- Video Production

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# Tesoro 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





## TESORO HIGH SCHOOL

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a-g Subject Requirements	UC a-g Approved CTE Courses Available To Tesoro High School Students
<p><b>a</b> – History/Social Science  <b>b</b> – English  <b>c</b> – Mathematics  <b>d</b> – Laboratory Science  <b>e</b> – Language other than English  <b>f</b> – Visual and Performing Arts  <b>g</b> – College-prep Elective</p> <p><u>“b” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Exploration of Child &amp; Adolescent Literature</li> </ul> <p><u>“d” – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science Principles</li> <li>• Emergency Medical Technician</li> <li>• Sports Medicine</li> </ul> <p><u>“f” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Actors’ Repertory</li> <li>• Commercial Music</li> <li>• Digital Photography</li> <li>• Fashion Design</li> <li>• Multimedia Design</li> <li>• Stagecraft</li> <li>• TV Broadcast Journalism</li> <li>• Video Production</li> </ul>	<p><u>“c” – Requirement</u></p> <ul style="list-style-type: none"> <li>• AP Computer Science</li> <li>• Chemistry &amp; Environmental Engineering</li> </ul> <p><u>“g” – Requirement</u></p> <ul style="list-style-type: none"> <li>• Accounting</li> <li>• Automotive Mechanics</li> <li>• Automotive Technology</li> <li>• Aviation Careers</li> <li>• Business Management/Entrepreneurship</li> <li>• Cybersecurity</li> <li>• Dental Assistant</li> <li>• Educational Psychology</li> <li>• Fire Science</li> <li>• Hotel/Hospitality Careers</li> <li>• Medical Assisting</li> <li>• Medical Core</li> <li>• Medical/ Hospital Careers</li> <li>• Medical Innovation, Research &amp; Entrepreneurship</li> <li>• Pharmacy Clerk</li> <li>• Pharmacy Technician</li> <li>• Robotics &amp; Autonomous Systems</li> <li>• Robotics Fundamentals</li> <li>• Robotics System Integration</li> <li>• Veterinary Technician</li> <li>• Veterinary Technician Advanced</li> </ul>

# Honors Weighted CTE Courses



## TESORO HIGH SCHOOL

Students who earn a grade of "C-" or higher in these classes will receive an additional .5 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\*  
Digital Photography  
Educational Psychology  
Emergency Medical Technician\*  
Exploration of Child & Adolescent Literature  
Fashion Design\*  
Medical Core\*\*  
Medical/ Hospital Careers\*  
Multimedia Design  
Robotics Fundamentals\*  
Robotics Design & Fabrication\*  
Robotics System Integration\*  
Robotics & Autonomous Systems\*  
Stagecraft  
TV Broadcast Journalism  
Video Production  
Video Production, Advanced  
Veterinary Technician Advanced\*

85

To Register for Classes  
Contact your High School Academic  
Advisor

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



# Tesoro High School

## 2022-23 Articulated CTE Courses

### ***Earn College Credit!***

<b>Take this course in High School:</b>	<b>Articulates with this course:</b>
<b>Course Title</b>	<b>Saddleback College Course Title</b>
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
Multimedia Design	Introduction to Computer Graphics – GD 147
Sports Medicine	Intro to Athletic Training – KNES 53
TV Broadcast Journalism	Television Production I – CTVR 124
Video Production	Video Production Basics – CTVR 101
<b>Course Title</b>	<b>Santa Ana College Course Title</b>
Fire Science*	Fire Technology 101
<b>Course Title</b>	<b>Coastline College Course Title</b>
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

## COURSE DESCRIPTIONS

### **Accounting (THS)**

**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 & Irvine Valley 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 (THS)**

**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

*Articulates with Saddleback College; 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 (THS)**

**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 & Irvine Valley 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? (THS)**

**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.

### **Digital Photography (THS)**

**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

*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.

### **Educational Psychology (THS)**

**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

### **Educational Psychology – Continued**

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 (THS)**

**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

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

### **Exploration of Child and Adolescent Literature – Continued**

and adolescent literature and why those themes are crucial to 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.

### **Medical Core (THS)**

**Instructor: Di Francesco**

**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*

*Articulates with Coastline Community College; Honors Weighted*

This course meets the prerequisite requirement for Medical Assistant I. 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.

### **Multimedia Design (THS)**

**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 (THS)**

**Instructor: Di Francesco**

**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. Please see IMPORTANT NOTICE on Page 2.

### **Stagecraft (THS)**

**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.

**Stagecraft, Intro (THS)****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.

**TV Broadcast Journalism (THS)****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 (THS)****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

**Video Production – Continued**

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, documentary, commercials and music videos) will be studied and critiqued using a variety of media

**Digital Media Art - Continued**

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: Brannon

Days: Mondays/Wednesdays

Times 4:00 – 6:30 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: Mack

Days: Tuesday

Times 4:00 – 8:30 P.M.

Location: Aliso Niguel High School – Room 909

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 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 917

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: Tuesdays/Thursdays

Times 4:00 – 6:30 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 3:30 – 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: Capistrano Valley High School – 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.

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: 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.

## **Emergency Medical Technician**

Instructor: Johnson

Days: Tuesdays/Thursdays

Times: 4:00 – 6:30 P.M. **-or-** 6:45 – 9:15 P.M.

Location: Capistrano Valley High School – 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 are aligned with the National Standard Curriculum, Common Core State Standards, and the California Career Technical Education Model Curriculum Standards.

## **Fashion Design**

Instructor: Carlin

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*

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

### **Fashion Design - Continued**

and skills necessary to understand and work in the professionally diverse global fashion industry.

### **Fire Science**

Instructor: Di Francesco

Days: Tuesday

Times 4:00 – 8:30 P.M.

Location: Capistrano Valley High School – 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).

### **Hotel and Hospitality Occupations**

Instructor: Brown

Days: Tuesday/Thursday

Times 4:00 – 6:30 P.M.

Location: Aliso Niguel High School – Room 921

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 is for students interested in working in the Hotel and Tourism industries. Topics include the history of hospitality, employability skills, the travel and tourism industry, customer service, safety, communication skills, and a comprehensive breakdown of all positions within a hotel. Internship assignment is arranged through the instructor.



## **Lifeguarding**

Instructor: Nix

Days: Tuesday/Thursday

Times 3:30 – 6:00 P.M.

Location: Capistrano Valley High School – Room P8

Length: Semester - 5 Credits

Placement Guidelines: Grades 9 – 12

This semester long lifeguarding class is designed to teach you not only the basics in water safety but also the proper protocol when dealing with any emergencies around water. The course blends both traditional lecture style along with crucial hands-on training in order to teach you effective techniques to deliver prompt care to those in need. Learn how to respond safely and efficiently to water emergencies. This course will provide entry-level lifeguard participants with the knowledge, skills to prevent, recognize & respond to aquatic emergencies, and to provide care for breathing and cardiac emergencies, injuries and sudden illnesses until emergency medical services personal take over.

## **Medical Assisting**

Instructor: Brown

Days: Monday/Wednesday

Times 4:00 – 6:30 P.M.

Location: Capistrano Valley High School – Room P8

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

Times 4:00 – 8:30 P.M.

Location: Capistrano Valley High School – Room P8

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

### **Medical Core – Continued**

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 53

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/Higgs

Days: Tuesdays/Thursdays

Times: 4:00 – 6:00 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: Capistrano Valley High School – 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 Standards, which include safety, communication, technology, ethics, career planning and other employability skills.

### **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

### **Robotics Design & Fabrication – Continued**

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 student 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

## **Robotics System Integration – Continued**

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.

## **Veterinary Technician**

Instructor: Han

Days: Monday/Wednesday

Times 4:00 – 6:30 P.M.

Location: Capistrano Valley High School – Room P8

UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)

Length: Yearlong - 10 Credits

Placement Guidelines: Grades 9 – 12

Veterinarian Technician focuses on the duties and responsibilities of being a vet tech as well as job opportunities in the field of veterinary technology. The human-animal bond and ethical issues are introduced to the student. This course provides students with the basic understanding of operations in a clinical setting in addition to office and managerial duties of technicians such as scheduling, ordering, inventory control, teamwork dynamics, and compassion fatigue. Students will also learn the anatomy and physiology of animal science. Students are required to complete clinical assignments (a certificate is granted upon completion). Students may be required to participate in animal related activities to gain hands on experience to enhance the course material.

## **Veterinary Technician, Advanced**

Instructor: Han

Days: Mondays/Wednesdays

Times 6:45 – 9:15 P.M.

Location: Capistrano Valley High School – Room P8

UC/CSU: g (must complete fall and spring semesters for UC/CSU credit)

Length: Yearlong - 10 Credits

Placement Guidelines: Grades 9 – 12

*Honors Weighted*

Veterinary Technician, Advanced is an academically challenging second year course from the Veterinary Technician course. This course will build off the knowledge obtained in Intro to Vet science in anatomy, physiology, biochemistry and medical terminology. This prior knowledge will be applied to practical medical situations, real-life scenarios and veterinary case studies presented in class. A variety of resources will be accessed (Internet, medical journals, books, off campus field trips and medical professionals) for the purpose of creating written and oral presentations that demonstrate the students' knowledge and application of scientific principles. Students will participate in supplemental lab practicum throughout the duration of this course.



# 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.CCAAdvantage.org](http://www.CCAAdvantage.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: 4:30 PM – 8:30 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 – 1:00 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: Monday – Thursday

Times: 8:00 AM – 12:00 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*

Days: Tuesday and Thursday

Times: 3:30 PM – 8:00 PM

Location: ANHS/921

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 – 1:00 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)*

Days: Monday – Thursday

Times: 8:00 AM – 3:30 PM

Location: CCATC/P20

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 SCHOOL



## 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
- Laser Engraver



## MIDDLE SCHOOL COURSE OFFERINGS

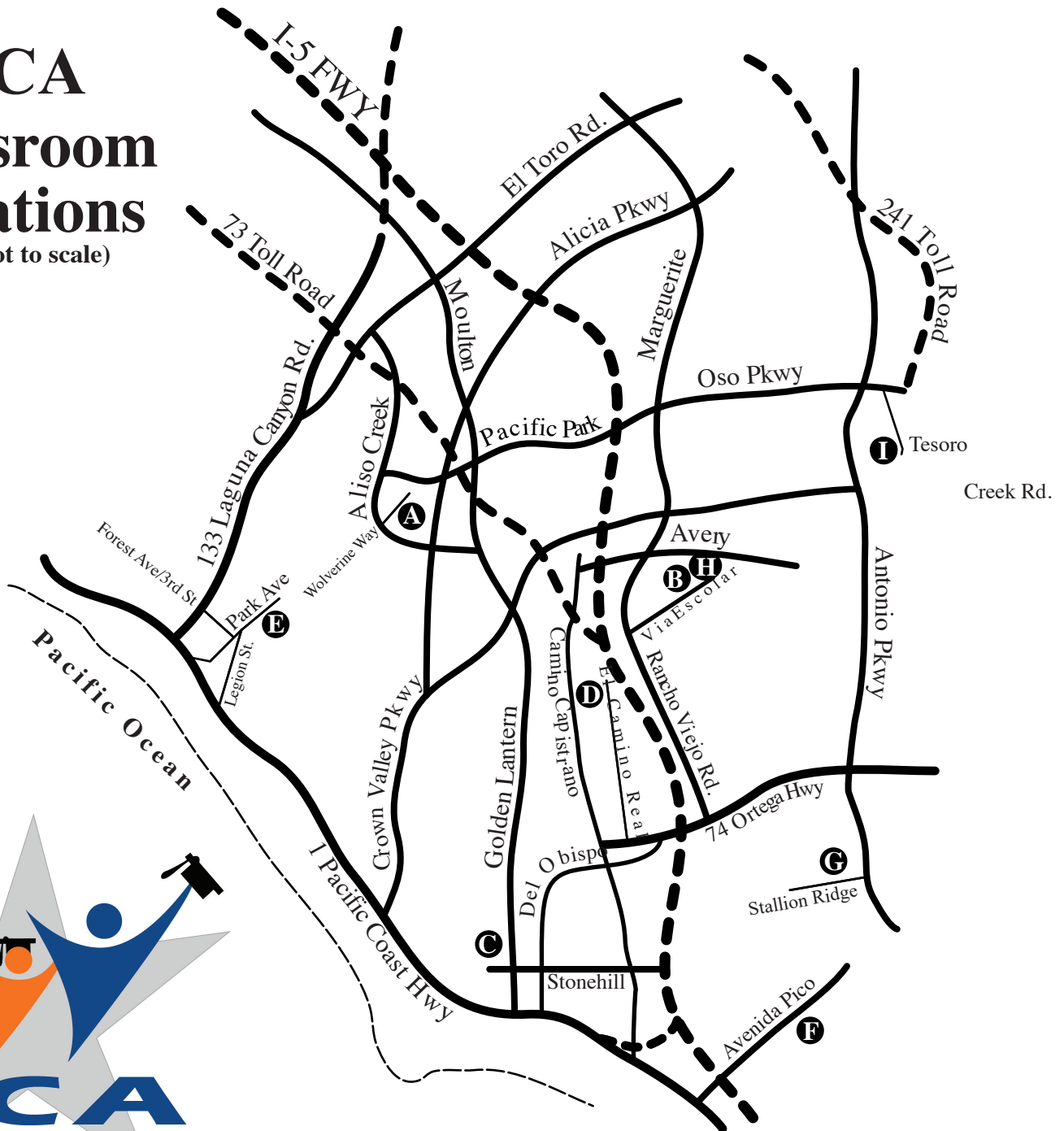
School Site	Course Title
Aliso Viejo Middle School	Career Tech Investigation Lab
Aliso Viejo Middle School	Computer Applications Intro
Aliso Viejo Middle School	Culinary Arts
Aliso Viejo Middle School	Forensic Science
Aliso Viejo Middle School	Robotics
Aliso Viejo Middle School	Video Production
Arroyo Vista Middle School	Career Tech Investigation Lab
Bernice Ayer Middle School	Tech & Present
Bernice Ayer Middle School	Video Production
Carl Hankey Middle School	Career Tech Investigation Lab
Don Juan Avila Middle School	Career Tech Investigation Lab
Don Juan Avila Middle School	Computer Applications Intro
Don Juan Avila Middle School	Forensic Science
Don Juan Avila Middle School	Home Art Skills
Don Juan Avila Middle School	Home Arts Advanced
Don Juan Avila Middle School	Robotics
Esencia Middle School	Career Tech Investigation Lab
Fred Newhart Middle School	Career Tech Investigation Lab
Fred Newhart Middle School	Robotics
Fred Newhart Middle School	Tech Production Intro
Ladera Ranch Middle School	Career Tech Investigation Lab
Ladera Ranch Middle School	Home Art Skills
Ladera Ranch Middle School	Home Arts Advanced
Las Flores Middle School	Career Tech Investigation Lab
Las Flores Middle School	Home Art Skills
Las Flores Middle School	Home Arts Advanced
Las Flores Middle School	Video Production Intro
Las Flores Middle School	Tech Processes
Marco Forster Middle School	Career Tech Investigation Lab
Marco Forster Middle School	Computer Applications
Marco Forster Middle School	Robotics
Marco Forster Middle School	Stagecraft

## MIDDLE SCHOOL COURSE OFFERINGS

Niguel Hills Middle School	Career Tech Investigation Lab
Niguel Hills Middle School	Home Art Skills
Niguel Hills Middle School	Video Production
Shorecliffs Middle School	Career Tech Investigation Lab
Vista del Mar Middle School	Career Tech Investigation Lab
Vista del Mar Middle School	Video Production

# CCA Classroom Locations

(Map not to scale)



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

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

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

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

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

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

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

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

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

# Career Technical Education Makes a Difference...

- **91% of high school graduates who took 2-3 CTE high school courses enrolled in college**
- **Data shows that 80% of those students reach their college goals such as degrees, postsecondary education and/or certification**

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