



SANTA ANA COLLEGE

# SANTA ANA COLLEGE

# **SUMMER 2024**

# **SCHEDULE OF CLASSES**



JUNE 17 - AUGUST 11



# SUMMER 2024

June 17 - August 11

## PRESIDENT’S MESSAGE



**Welcome to Santa Ana College!** We are so happy that you are at our amazing institution, and we are here to provide you excellent services and high-quality education at an affordable rate. Santa Ana College has been part of this community for over 100 years, and we have a rich tradition of academic excellence whether

you want to learn English, earn a high school diploma, learn career or technical education, earn an associate’s or bachelor’s degree, and/or transfer to a university. The college even offers an Online Pathway, where you can earn your degree completely online in two years for about \$2,500. Here at Santa Ana College, we have a pathway for you!

We recognize that each of you may be at different stages of your life, whether you are a recent high school graduate or a student returning to school after years in the workforce. Going to college is no small feat, but you’re doing it, and the college offers student support services to help you thrive. We are proud of your dedication, and the way you are able to balance work, family, life and school.

Through our Guided Pathways framework, we work diligently to ensure students stay on their career or academic path towards completion of their goals.

Even though Santa Ana College has been part of this community for over 100 years, we continue to evolve meeting the needs of our students and growing community. Our new state-of-the-art facilities, including the Science and Johnson Student Centers are facets of that growth, which will enable students to rise through education, helping to change their future and legacy for their families.

We stand ready to inspire, transform, and empower you on your educational journey!

Welcome again,

Annebelle Nery, Ph.D.

Santa Ana College President

### SANTA ANA COLLEGE MISSION STATEMENT

*Santa Ana College inspires, transforms, and empowers a diverse community of learners.*

[sac.edu](http://sac.edu)

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## CALENDAR

Online Registration begins . . . . .	March 18, 2024
Instruction begins . . . . .	June 17, 2024
Refer to section information in Self-Service:	
Last day to add class with instructor’s add authorization	
Last day to drop a class with enrollment fee refund and no “W” grade	
Last day to file Pass/No Pass	
Last day to drop a class with “W” grade	
Summer Session ends . . . . .	August 11, 2024

**Online Priority Registration Dates:**

Veterans/DSPS/EOPS/CalWORKs/Foster Youth/Student Parents . . . . .	March 18 - June 16, 2024
Athletes, CAMP, STARS, UMOJA, Online Degree Pathways, ASG Leaders, Honor Students .	March 19 - June 16, 2024
Continuing Students . . . . .	March 20 - June 16, 2024
New/Returning Students . . . . .	March 23 - June 16, 2024
Loss of Priority Registration Students . . . . .	March 24 - June 16, 2024
Special Admit Student / Open Registration . . . . .	March 25 - June 16, 2024

**ADMISSIONS AND RECORDS OFFICE:**

Visit [sac.edu/admissions](http://sac.edu/admissions) for more information, current student counter opening hours, and to chat with us.

### HOW TO APPLY AND REGISTER

NOTE: Please check that your email address is current in your student profile online in order to receive your username and password.

**STEP ONE:**

To apply to Santa Ana College, complete an application online at [sac.edu](http://sac.edu). Select “Enroll” and follow the instructions to submit your online application through CCCApply. After submitting all of your information, you will receive an e-mail confirmation from CCCApply. Within 24- 48 business hours, you will receive another e-mail from Santa Ana College with your Single Sign On login information and important registration information. You will be able to log in to Self-Service to register for classes.

**STEP TWO: ONLINE REGISTRATION STEPS:**

- Go to [sac.edu/selfservice](http://sac.edu/selfservice)
- Log in with your Single Sign On User ID and Password.
- Click on “Student Planning”
- Click on “Go to Plan & Schedule”
- Search courses through “Search for courses...”
- Use “Filter Results” to narrow down course selection
- Click on “View Available Sections for...”
- Click on “Add Section to Schedule” and “Add Section”
- Click “Back to Plan & Schedule”
- Click “Register” to complete registration for the course

Pay immediately to keep your classes.

**DROP FOR NON-PAYMENT POLICY**

Enrollment fees must be paid IN FULL within 3 calendar days of registration or all of your classes may be dropped and released to other students. In addition to the 3-day non-payment drop policy, there is a final outstanding balance drop date. No balance will be carried over into the start of the semester. All fees (enrollment and health fees) must be paid in full by the Friday (midnight) before the start of the semester. If there is a balance on your account, your classes may be dropped the next morning (Saturday) regardless of when you registered. There will be no drops for nonpayment processed once the semester begins. If you need assistance paying your enrollment fees and would like to apply for a Fee Waiver, go to [sac.edu/finaid](http://sac.edu/finaid). It is your responsibility to check your account balance and pay the amount owed.

**STUDENT RESPONSIBILITY TO DROP CLASSES**

To avoid a “W” grade, students must drop classes on or before the day of first class meeting. Students will not be automatically dropped for non-attendance. You must drop online. After the first day of the first class meeting, you will not be eligible to receive a refund for your classes nor be exempt from payment.

### **WAIT LIST POLICY**

You are not able to wait-list more than one section per course. You cannot wait-list a course that will conflict with another course. As seats become available, students will be moved into an open seat. You will be notified by email (it is your responsibility to make sure that your e-mail is up-to-date) and will have 3 calendar days to pay for the course or you may be dropped. Once the class begins, the registration system will require an ADD AUTHORIZATION in order to register, which you must obtain from the instructor. If the instructor issues you an online add authorization, you will be able to complete your class registration during the add period (as of the first day of class and up until the end of the add period for the class) Log in to Self-Service often to check your status on the wait list.

### **PAY FEES IMMEDIATELY**

Fees must be paid within 3 calendar days of registering for courses or you may be dropped for non-payment. The date that you register counts as the first calendar day.

**Pay Online** with a credit card at [sac.edu](http://sac.edu)

**Pay in person** at the college cashier's office locations listed on this page. Payment by check, Visa, MasterCard, and Discover are accepted.

#### **Mail check or money order to:**

Registration, SAC Cashier's Office, 1530 W. 17th Street,  
Santa Ana, CA 92706

Registration, SCC Cashier's Office, 8045 E. Chapman Avenue, Orange, CA 92869

**Do not send cash!** Make checks payable to "RSCCD" and write your Student ID number on the check.

**Enrollment Fee:** \$46.00 per unit. Payment is required of all students upon registering for classes.

**Non Resident Tuition:** \$ 399.00 per unit (\$ 352.00 tuition + \$ 47.00 capital outlay) in addition to the enrollment fee. Refer residency questions to the Admissions office.

**Health Fee:** \$20.00 for Summer Session is charged to all students whether or not they choose to use health services.

**Student Representation Fee:** \$2.00

**Student Life and Leadership Fee:** \$10.00

**Refunds: Students will be eligible for a refund if they drop their course on or before the day of the first class meeting.**

**Material Fee:** Material fee may be required for a course. Check classes online for specific fees.

**Student Photo Identification Card** is available at the Cashier's Office, room JSC-202 at Santa Ana College, FREE of charge.

**Parking Fee:** \$10.00. A permit is required to park on campus and may be purchased at registration. Motorcycles are exempt in designated parking areas.

### **FIRST CLASS MEETING**

#### **Make sure you attend the first class meeting!**

Attendance at the first meeting of a class is advised because of enrollment demands. Any student not reporting to the first class meeting or not participating in the first course activity designated to account for active enrollment may be dropped.

### **OFF-CAMPUS FIELD TRIPS POLICY**

Throughout the semester/school year, the District may sponsor voluntary off-campus extracurricular field trips/excursions. If you choose to participate, be advised that pursuant to California Code of Regulations, Subchapter 5, Section 55450, you have agreed to hold the District, its officers, agents and employees harmless from any and all liability or claims which may arise out of or in connection with your participation in the activity.

### **PHOTOGRAPHY**

Santa Ana College/Santiago Canyon College, a non-profit California Community College, reserves the right to use photography and video images of students and visitors, age 18 and older, taken on our property and at college-sponsored events for marketing and promotional purposes. Objection to the use of an individual's photograph may be made in writing to Public Affairs and Publications, RSCCD District Office, 2323 N. Broadway, Suite 408, Santa Ana, CA 92706.

**ONLINE COUNSELING NOW AVAILABLE!**

[sac.edu/StudentServices/Counseling](http://sac.edu/StudentServices/Counseling)

**ACADEMIC PLANNING QUESTIONS?**

[sac.edu/StudentServices/Counseling](http://sac.edu/StudentServices/Counseling)

**REGISTRATION QUESTIONS? Call 714-564-6017**

[sac.edu/admissions](http://sac.edu/admissions)

## Summer Library Hours

### Nealley Library Remote Services

- Hours: For most current hours please see the library website: [sac.edu/library](http://sac.edu/library)

Circulation (Library Accounts and Textbook Reserves): (714) 564-6700

Reference (Research Assistance): (714) 564-6708

The library provides a variety of services and many useful print and online resources for the academic success of students and the informational needs of all.

- **Access to Library Resources:** The library's [research databases](#) remain available for accessing e-articles, e-books, and other online research materials 24/7. We have temporarily doubled our e-books collection due to free publisher access. Online research guides (LibGuides) are also used to point students to free and reliable web content.
- **Research and Informational Assistance:** Nealley librarians and staff are available to respond to information and research assistance requests via chat, email, Zoom, and phone. Details provided on the "[Online Research and Informational Help](#)" page.
- **Research Consultations:** Librarians are available to meet remotely with students on an appointment basis for in-depth research consultations, by Zoom or phone.
- **Textbook Reserves:** The [eTextbooks@Nealley Library guide](#) offers information on available digital course materials, and library staff are available to assist students remotely with locating eTextbook reserve options.
- **Library Research Workshops:** Students may participate in online library workshops: Finding Articles and Evaluating Online Information. For more information on how to enroll in these workshops via Canvas, visit our [Online Workshops website](#).
- **Faculty Support:** Librarians are available to work with faculty remotely involving collection development, research support, information literacy instruction and IL curricular development needs. The [Liaison Librarian](#) list (within the [Faculty Guide to Library Resources and Services](#)) outlines librarian liaison assignments for divisions and departments.

## CLASS AND INSTRUCTION METHODS

Classes are currently being taught using a variety of methods. Below you will find the different ways classes are being offered to students college-wide. When selecting a class, please take note of the method of instruction through which that class will be offered. For any questions regarding your classes, please contact your instructor or counselor.

### Important notes for both Online, Fully Online Live, Hybrid, Virtual Hybrid, On-Campus with Virtual Instruction, and On Campus classes:

- Access to classes will be available on Canvas, [sac.edu/Canvas](https://sac.edu/Canvas), the first day of classes.
- Students on wait lists must email the instructor the first week of class to be considered for enrollment.
- Verify that your email address is current on Self-Service.
- Please contact the Distance Education Office if you are unable to login to access your Canvas class(es) at 714-564-6725 or by email: [sac\\_disted@sac.edu](mailto:sac_disted@sac.edu)
- Information regarding online learning, Canvas help and Frequently Asked Questions can be found at our website: [sac.edu/disted](https://sac.edu/disted)

On campus required meeting dates, time and place, and instructor contact information can be found on Self-Service [sac.edu/selfservice](https://sac.edu/selfservice)

**O** **FULLY ONLINE INSTRUCTION (O)** classes are distance education classes that meet 100% online with no scheduled meeting days. Students logon to Canvas at [sac.edu/Canvas](https://sac.edu/Canvas) and complete work regularly throughout the week. Canvas and other technologies will be required to complete coursework.

**OL** **FULLY ONLINE LIVE (OL)** classes are distance education classes that only meet in scheduled live streaming Zoom meetings. Students logon to Canvas at [sac.edu/Canvas](https://sac.edu/Canvas) to attend class virtually on zoom during the published course times. Canvas and other technologies will be required to complete coursework.

**H** **ONLINE & ON-CAMPUS MEETINGS (H)** classes are distance education classes that combine scheduled on-campus meetings and online instruction. Students will attend class on-campus during the published course times and will logon to Canvas at [sac.edu/Canvas](https://sac.edu/Canvas) and complete work regularly throughout the week. Canvas and other technologies will be required to complete coursework.


**VH** **VIRTUAL HYBRID INSTRUCTION (VH)** classes are distance education classes that combine scheduled live streaming Zoom meetings and online instruction. Students will attend class virtually on Zoom during the published course times and will logon to Canvas at [sac.edu/Canvas](https://sac.edu/Canvas) and complete work regularly throughout the week. Canvas and other technologies will be required to complete coursework.

**CV** **ON-CAMPUS WITH VIRTUAL INSTRUCTION (CV)** classes are distance education classes that combine scheduled on-campus and scheduled Zoom meetings. Students will attend class on-campus and will attend class virtually on zoom during the published course times and will logon to Canvas at [sac.edu/Canvas](https://sac.edu/Canvas). Canvas and other technologies will be required to complete coursework.


**C** **ON-CAMPUS (C)** classes are on-campus and in-person with scheduled meeting days and times. Students will complete their course on campus.

## TEXTBOOK AFFORDABILITY

### OPEN EDUCATIONAL RESOURCES (OER)

 Open Educational Resources (OER) refers to textbooks or online materials that are in the public domain or have a Creative Commons license. Classes listed with an OER symbol use free course materials unless noted in the course schedule comments. A course using Lumen Learning OER will charge a material fee for the online resource.

### ZERO TEXTBOOK COST (ZTC)

 Zero Textbook Cost (ZTC) refers to courses that eliminate conventional textbook costs by using alternative instructional materials and methodologies, including freely usable Open Educational Resources. Classes listed with a (ZTC) symbol use free course materials.

The college strives to ensure that the OER and ZTC designations are accurate; however, under some circumstances, faculty may have to adjust selection of instructional materials and this can affect course material costs.

It may also be necessary to change instructors. Replacement faculty have academic freedom to choose instructional materials regardless of costs and are not obligated to use free course materials selected by an instructor previously assigned to the class.

## ACCOUNTING (ACCT)

### ACCT 032, PAYROLL ACCOUNTING

**2.0 UNITS**

This course covers accounting for payroll and worker’s compensation. Calculation of payroll, payroll taxes, and the related forms and deposit requirements are covered.

**40767** **Bowman S** **SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### ACCT 101, FINANCIAL ACCOUNTING

**4.0 UNITS**

The study of accounting as an information system, examining why it is important, and how it is used by investors and creditors to make decisions. Coverage includes the accounting information system and the recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the classified financial statements, and statement analysis. It also includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls and ethics.

**40768** **Trone J** **SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**40769** **Trone J** **SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**40770** **Wilson S** **SAC ONLINE 06/17-08/11**

**6:00p-10:00p Tu**

**Staff**

**SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**40771** **Wilson S** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**40772** **Hoekstra T** **SAC ONLINE 06/17-08/11**

**6:00p-8:00p M**

**Staff**

**SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

### ACCT 102, MANAGERIAL ACCOUNTING

**4.0 UNITS**

Study of the use and reporting of accounting data for managerial planning, cost control, and decision making purposes. The course includes broad coverage of concepts, classifications, and behaviors of costs. Topics include cost systems, the analysis and use of cost information, cost-volume-profit analysis, contribution margin, profit planning, standard costs, relevant costs, and capital budgeting.

*Prerequisite: Accounting 101 with a minimum grade of C.*

**40773** **Phung T** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**41922** **Strong J** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. This class will require proctored exams using software. Students must have access to a webcam and a microphone.

**O** **ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

**OL** **FULLY ONLINE LIVE:** Fully Online Live Instruction - Live streaming instruction via Zoom

**H** **HYBRID:** On-Campus Hybrid Instruction – A combination of on-campus meetings and online instruction

**VH** **VIRTUAL HYBRID:** Virtual Hybrid Instruction – A combination of live streaming Zoom meetings and online instruction

**CV** **ON CAMPUS W/VIRTUAL:** On-Campus with Virtual Instruction – A combination of on-campus and live streaming Zoom meetings

**C** **ON-CAMPUS:** On-Campus Instruction – On-campus and in-person with scheduled meeting days and times.

**Low Cost or  
Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**ACCT 104, FEDERAL AND CALIFORNIA TAXES**

**4.0 UNITS**

Learn how to prepare federal and California state income tax returns for the individual. Learn tax theory and rules behind the Form 1040 and the most common IRS Schedules, such as Schedules A, B, C, D, E, and common income adjustments and tax credits. This course is CTEC qualified. This course may be repeatable as continuing education for professional certification.

 **40774**

**Sung L**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ACCT 212, ACCOUNTANTS' ETHICS AND RESPONSIBILITIES**

**4.0 UNITS**

Focuses on the foundations of ethics & the professional responsibilities of accountants & CPAs; including ethical behavior and responding to ethical dilemmas. Topical content will include relevant professional, ethical standards and regulations, as well as research and practice concerning challenging ethical situations. The course will focus on the discussion of ethical cases and study of professional ethical standards set forth by both the AICPA and California State Board of Accountancy.

 **40775**

**Strong J**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**AMERICAN SIGN LANGUAGE (ASL)**

**ASL 110, AMERICAN SIGN LANGUAGE I**



**4.0 UNITS**

This entry level course is designed to introduce students to American Sign Language (ASL) and fingerspelling as it is used within American Deaf culture. Instruction includes preparation for visual/gestural communication followed by intensive work on comprehension through receptive language skills, development of basic conversational skills, modeling of grammatical structures, and general information about American Deaf culture. ASL 110 is equivalent to two years of high school ASL. Students are required to attend at least one off-campus event.

 **41975**

**Smith E**

**SAC ONLINE 06/17-07/14**

  Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

 **41976**

**McCroary R**

**SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **41978**

**Vollmar J**



**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **41979**

**Smith E**

**SAC ONLINE 07/15-08/11**

  Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

 **41980**

**Ruiz K**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ASL 111, AMERICAN SIGN LANGUAGE II**

**4.0 UNITS**



The second course in the study of American Sign Language (ASL) focuses on increased vocabulary development, intermediate comprehension and conversational skills, application of grammatical structures and practice in the receptive and expressive aspects of ASL, as well as appreciation of American Deaf culture, and history. Students are required to attend at least one off campus event.

*Prerequisite: American Sign Language 110 with a minimum grade of C.*

 **41981**


**Arazi H**

**SAC ONLINE 06/17-08/11**


  Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

 **ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

 **FULLY ONLINE LIVE:** Fully Online Live Instruction - Live streaming instruction via Zoom

 **HYBRID:** On-Campus Hybrid Instruction – A combination of on-campus meetings and online instruction

 **VIRTUAL HYBRID:** Virtual Hybrid Instruction – A combination of live streaming Zoom meetings and online instruction

 **ON CAMPUS W/VIRTUAL:** On-Campus with Virtual Instruction – A combination of on-campus and live streaming Zoom meetings

 **ON-CAMPUS:** On-Campus Instruction – On-campus and in-person with scheduled meeting days and times.

**Low Cost or Free Textbooks**



 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**




 **41982** **Arazi H** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

## ANTHROPOLOGY (ANTH)


**ANTH 100, INTRODUCTION TO CULTURAL ANTHROPOLOGY** **3.0 UNITS**  
 A cross-cultural survey of the major areas of cultural anthropology including subsistence patterns, economic and political systems, family and kinship, religion, and cultural change. Also includes contemporary issues facing humankind such as the environment, resource depletion, ethnic conflict, globalization, and warfare. Emphasis is on understanding cultural diversity and cultural universals. Field trips may be required.

 **42032** **9:00a-12:20p** **Tu Th** **Cundiff W** **SAC D-401** **06/17-08/11**

 **42031** **Robertson M** **SAC ONLINE** **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ANTH 101, INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY** **3.0 UNITS**  
 An introduction to humankind's place in nature including evolutionary theory, principles of genetics, primate evolution and behavior, fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes practical application of biological anthropology to human problems.

 **42035** **9:00a-12:20p** **M W** **Leroy A** **SAC D-401** **06/17-08/11**

 **42033** **Robertson M** **SAC ONLINE** **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


 **42034** **Cundiff W** **SAC ONLINE** **06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ANTH 101L, BIOLOGICAL ANTHROPOLOGY LABORATORY** **1.0 UNIT**  
 Laboratory exercises and experiments designed to explore and understand the primary areas of physical anthropology: evolutionary theory, principles of genetics, comparative anatomy, physiology, behavior and ecology of vertebrates with an emphasis on nonhuman primates, analysis of fossil evidence for human evolution, human biology and variation, growth and adaptability, and biomedical anthropology. Includes both traditional and virtual laboratory experiences.

*Prerequisite: Anthropology 101 with a minimum grade of C or concurrent enrollment in Anthropology 101.*

 **42038** **1:00p-4:20p** **M W** **Leroy A** **SAC D-401** **06/17-08/11**

 **42036** **Robertson M** **SAC ONLINE** **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42037** **Staff** **SAC ONLINE** **06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

## ART (ART)


**ART 100, INTRODUCTION TO ART CONCEPTS** **3.0 UNITS**  
 A study of the visual arts in relation to both personal and cultural expressions. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied. Required for art majors.

 **28383** **10:00a-2:35p** **Tu Th** **Stone L** **SAC A-130** **06/17-07/28**


 **28525** **10:00a-2:35p** **M W** **Spies B** **SAC C-104** **06/17-07/28**

 **28345** **3:30p-8:05p** **M W** **Spies B** **SAC C-104** **06/17-07/28**

 **26162** **Soriano I** **SAC ONLINE** **06/17-07/28**

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**Low Cost or Free Textbooks**



 **OER**


 **ZTC**



**Honors Courses:**

 **HONORS**

 **26165** **Marquez P** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.



 **26168** **Marquez P** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

 **ART 100H, HONORS INTRODUCTION TO ART CONCEPTS** **3.0 UNITS**  
 Enriched exposure to a study of the visual arts in relation to personal and cultural expression with an emphasis on critical thinking and writing. Fundamentals of visual organization, color theory, terminology, historical art movements and concepts will be studied in a seminar format.

 **26178** **Monroe J** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.



**ART 101, SURVEY OF WESTERN ART HISTORY I: PREHISTORY THROUGH THE MIDDLE AGES** **3.0 UNITS**  
 The study of art from Prehistory through Middle Ages. Cultures and Civilizations are studied through visual imagery, lecture, class discussion, reading, research, and field trips. Recommended sequence of courses: Art 100, Art 101, Art 102.

*Recommended Preparation: Completion of or concurrent enrollment in English 101 or English 101H.*



 **26182** **Wilson E** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.


**ART 102, SURVEY OF WESTERN ART HISTORY II: RENAISSANCE TO TODAY** **3.0 UNITS**  
 The study of Western art history from the Renaissance to today. Art movements and individual painters, sculptors, architects, and printmakers will be presented within the context of the social, political, and intellectual histories of their respective periods. Required for art majors.


*Recommended Preparation: English 101 or English 101H is recommended.*


 **26187** **Wilson E** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**ART 105, HISTORY OF MODERN ART** **3.0 UNITS**  
 History of painting, sculpture, architecture, prints, and applied arts from the late nineteenth century through the twentieth century. Covers the formal philosophic, spiritual, and historical background of art from Post Impressionism to Post Modernism. For general students and art majors.


 **26190** **Wilson E** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**ART 110, TWO-DIMENSIONAL DESIGN**

**3.0 UNITS**

Introduction to the principles and elements of two-dimensional design. Provides instruction in the fundamentals of visual communication including color theory, composition, and expression. Application of concepts through creative projects. Required for art majors.

**26191** Hostetter D SAC ONLINE 06/17-08/11  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ART 111, THREE-DIMENSIONAL DESIGN**

**3.0 UNITS**

An introduction to the fundamental concepts and technical processes of three-dimensional design. Coursework will focus on the formal development and articulation of three dimensional objects with an emphasis on form, mass, scale, texture, space, color, contrast and movement.

**26196** Lourenco E SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ART 130, INTRODUCTION TO DRAWING**

**3.0 UNITS**

Introductory course in observational drawing, exploring line, form, proportion, composition, and a variety of media. Drawing from man-made and natural objects. Required for art majors.

**26200** 9:00a-11:20a M Tu W Th Hower T SAC C-210 06/17-07/14  
11:30a-4:35p M Tu W Th Hower T SAC C-210

**26216** Synicky C SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ART 162, DIGITAL ILLUSTRATION I**

**3.0 UNITS**

Explores the essentials of illustration for graphic designers and concept artists, using industry-standard production and design tools. Focuses on professional studio techniques to master this essential design tool for the creation of sophisticated graphics. Emphasizes efficient workflow, technical proficiency, and aesthetic judgment. Students produce portfolio-ready projects using a broad range of imaging skills. The primary software used includes Adobe Photoshop, supplemented with Adobe Illustrator, and some time-based media software.

*Recommended Preparation: Digital Media 195 or Art 195 or portfolio exhibiting equivalent skills to 3 units of entry-level digital design coursework.*

**Material Fee(s): \$15.00**

**26239** Fitch A SAC ONLINE 06/17-08/11  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ART 195, INTRODUCTION TO DIGITAL MEDIA ARTS**

**3.0 UNITS**

Foundation-level course designed for graphic designers, artists, photographers, web designers, programmers, and animation artists working in the digital realm. This course includes an overview of industry-standard software, including Adobe Creative Cloud for digital design in montage, vector, layout and time-based media.

**Material Fee(s): \$15.00**

**26228** Synicky C SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**26241** Clark S SAC ONLINE 06/17-08/11  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ART 230, INTERMEDIATE DRAWING**

**3.0 UNITS**

An intermediate course in the study of drawing designed to give students who have completed an introductory drawing course additional opportunity in graphic expression. Further exploration of materials including a wide variety of both drawing and mixed media. Students continue the development of composition and more intermediate concepts. The class emphasizes individual expression.

*Prerequisite: Art 130 with a minimum grade of C.*

**26212** 9:00a-11:20a M Tu W Th Hower T SAC C-210 06/17-07/14  
11:30a-4:35p M Tu W Th Hower T SAC C-210

**26217** Synicky C SAC ONLINE 06/17-07/28  
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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**ART 233, ADVANCED DRAWING**

**3.0 UNITS**

To further develop individual expression and advanced skill sets in drawing. Students will plan a series of drawing problems to be executed during the semester under the instructor’s direction. Exploration of new materials and techniques.

*Prerequisite: Art 230 with a minimum grade of C or portfolio review.*

<b>C</b> 41656	9:00a-11:20a	M Tu W Th	Hower T	SAC C-210	06/17-07/14
	11:30a-4:35p	M Tu W Th	Hower T	SAC C-210	
<b>O</b> 41657			Synicky C	SAC ONLINE	06/17-07/28

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ASTRONOMY (ASTR)**

**ASTR 109, INTRODUCTION TO THE SOLAR SYSTEM**

**3.0 UNITS**

Surveys history of astronomy, recent research and observations of the planets, moons, and other solar system objects. Exploration of light and gravity to understand formation, properties, and motion of Solar System objects.

<b>O</b> 41229			Tumakov V	SAC ONLINE	06/17-07/14
<b>O</b> 41230			Staff	SAC ONLINE	07/15-08/11

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**ASTR 110, INTRODUCTION TO STARS AND GALAXIES**

**3.0 UNITS**

Surveys the development of astronomy, current research and observations of stars, galaxies, and large-scaled structures in the universe. Exploration of light and gravity to understand the properties and evolution of stars, neutron stars, black holes, galaxies, and the universe’s structures and changes.

<b>O</b> 41231			Tumakov V	SAC ONLINE	06/17-07/14
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**AUTOMOTIVE TECHNOLOGY (AUTO)**

**AUTO 102, INTRODUCTION TO AUTOMOTIVE**

**3.0 UNITS**

Introduction to the primary automotive systems used on modern vehicles. Theory, parts nomenclature, and description of system operation are emphasized. This course is intended for students seeking technical knowledge, with hands-on lab work, and future employment as an automotive service technician.

<b>H</b> 43221			Martin J	SAC HYBRID	06/17-08/11
	6:30p-8:00p	Tu Th	Martin J	SAC J-102	
	8:10p-9:40p	Tu Th		SAC J-103	

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

**AUTO 114, SUSPENSION AND STEERING**

**4.5 UNITS**

This course will cover the theory, operation, diagnosis, and service of the steering and suspension systems used on modern vehicles. Wheel alignment, tires, tire pressure monitoring systems, and electronic suspension/steering components are included. Hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists students in preparation for the A4 (Steering and Suspension) ASE certification exam. Field trips may be required.

*Recommended Preparation: Automotive Technology 102 is recommended.*

<b>H</b> 43222			Gonzalez J	SAC ONLINE	06/17-08/11
	8:00a-1:50p	Tu Th	Gonzalez J	SAC J-103	

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**AUTO 115, BRAKES**

**4.5 UNITS**

This course will cover the theory of operation, diagnosis, and service of drum, disc, and anti-lock brake systems used on modern vehicles. Safe and correct hands-on practice is emphasized. Students must furnish approved safety glasses. This course assists the student in preparation for the A5 (Brakes) ASE certification exam. Field trips may be required.

*Recommended Preparation: Automotive Technology 102 is recommended.*

**H 43223**

**4:00p-9:50p**

**M W**

**Bittner M**

**Bittner M**

**SAC ONLINE 06/17-08/11**

**SAC J-103**

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

**AUTO 116A, ELECTRICAL FUNDAMENTALS LECTURE**

**4.0 UNITS**

Introduction to the basic operating principles of electrical and electronic devices used in modern vehicles. The course will include Ohm's law, circuit designs, electromagnetism, batteries, starters, and alternators. This course assists students in preparation for the A6 (Electrical/Electronics) ASE certification exam. Field trips may be required.

*Recommended Preparation: Automotive Technology 102 is recommended.*

**O 43224**

**Roper D**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**AUTO 118, ENGINE PERFORMANCE**

**5.0 UNITS**

This course will cover engine performance procedures including fuel, ignition, oscilloscope, emission control, and computer systems found on modern automobiles. Hands-on testing and diagnosis are emphasized. This course assists the student in preparation for the A8 (Engine Performance) ASE certification exam. Students must furnish approved safety glasses. Field trips may be required

*Recommended Preparation: Automotive Technology 102 and 116 are recommended.*

**H 43225**

**8:00a-12:30p**

**M W**

**Rudd J**

**Rudd J**

**SAC ONLINE 06/17-08/11**

**SAC J-103**

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

**AUTO 225, MOPAR TRANSMISSIONS**

**3.0 UNITS**

This course will cover transmission systems and components on Mopar vehicles, which include Chrysler, Dodge, Jeep, Ram, Fiat, and Alfa Romeo. Topics include automatic transmissions, manual transmissions, hydraulic pressure, valve bodies, clutches, torque converters, four-wheel drive, all-wheel-drive, and transmission computer module diagnosis specific to Mopar vehicles. This course is meant for students in the Mopar Career Automotive Program (CAP).

*Recommended Preparation: Automotive Technology 220 is recommended.*

**H 43226**

**1:15p-2:20p**

**Tu Th**

**Martin J**

**Martin J**

**SAC ONLINE 06/17-08/11**

**SAC J-102**

**2:30p-5:50p**

**Tu Th**

**SAC J-103**

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

**AUTO 299, AUTOMOTIVE COOPERATIVE WORK EXPERIENCE**

**1.0 - 4.0 UNITS**

This work experience course of supervised employment assists students to acquire desirable work habits, attitudes, and skills in automotive mechanical repair. A student can earn 1 to 4 units per semester, up to a maximum of 16 units total. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. Student repetition is allowed per Title 5, Section 55253.

*Prerequisite: Completion of at least 6 units of Automotive Technology courses with a minimum grade of C.*

**O 43228**

**Roper D**

**SAC ONLINE 06/17-08/11**

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**


 **HONORS**


**BIOLOGY (BIOL)****BIOL 109, FUNDAMENTALS OF BIOLOGY****3.0 UNITS**


Principles of biology stressing the relationship of all organisms from anatomical, physiological, and ecological points of view. Includes cell machinery, genetics, reproduction, embryology, animal behavior, botany, ecology, evolution, and human physiology. Concurrent enrollment in Biology 109L recommended. Designed for non-biology majors.

 **41294** **9:00a-12:35p** **M Tu W Th** **Smith D** **SAC SC-111** **06/17-07/11**


 **41295** **Morris A** **SAC ONLINE** **06/17-08/11**

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 **41296** **Morris A** **SAC ONLINE** **06/17-08/11**

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 **41297** **Beltran J** **SAC ONLINE** **06/17-07/14**

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 **41298** **Dinh-Mahavongtrakul M** **SAC ONLINE** **07/15-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


**BIOL 109L, FUNDAMENTALS OF BIOLOGY LABORATORY****1.0 UNIT**

Laboratory experiments that illustrate important biological concepts at all levels of organization, from molecules and cells, to organisms, populations, communities, and ecosystems. Content complements Biology 109/109H lecture material. Fieldtrip required.

*Prerequisite: Concurrent enrollment or completion with a grade of "C" or better or a Passing grade in Biology 109 or Biology 109H.*

 **41307** **9:00a-12:35p** **M Tu W Th** **Saucedo C** **SAC SC-218** **06/17-07/11**

 **41308** **9:00a-12:10p** **M Tu W Th** **Daileg P** **SAC SC-218** **07/15-08/08**


 **41299** **1:00p-4:35p** **M Tu W Th** **Smith D** **SAC SC-218** **06/17-07/11**

 **41305** **5:00p-8:35p** **M Tu W Th** **Chroman L** **SAC SC-218** **06/17-07/11**

**BIOL 190, INTRODUCTION TO BIOTECHNOLOGY****3.0 UNITS**

This course is a general examination of biology as it relates to the field of biotechnology. Topics include the fundamental chemical processes common in prokaryotic and eukaryotic biology, chemistry of bio-molecules (proteins, enzymes, nucleic acids and lipids), cellular and molecular biology, basic immunology, and classical and molecular genetics with an emphasis on gene expression and genetic engineering.


 **41321** **Jang C** **SAC ONLINE** **06/17-07/14**


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**BIOL 190L, INTRODUCTORY BIOTECH LAB****1.0 UNIT**

This laboratory is a general examination of biology as it relates to the field of biotechnology. The laboratory addresses basic skills and techniques common to the biotechnology industry. Topics include the measurement of activity and quantity of proteins, growth and manipulation of bacteria, genetic engineering and antibody methods. This course is intended as a laboratory class for students majoring in applied biology and as a general education laboratory option for all students.

*Prerequisite: Completion with a grade of "C" or better or a Passing grade or concurrent enrollment in Biology 190.*


 **41322** **6:00p-9:10p** **M Tu W Th** **Jang C** **SAC SC-212** **07/15-08/08**

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**Low Cost or  
Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**


 **HONORS**

**BIOL 191, BIOTECH A: BASIC SKILLS**

**4.0 UNITS**

This course prepares students for entry-level work in the biotechnology industry by emphasizing the core concepts needed to work effectively in a bioscience laboratory. Topics include laboratory math, basic chemistry of buffers, healthy and safety, metrology and quality control. This course introduces students to standard biotechnology laboratory skills including laboratory measurement, maintenance of an industry standard notebook, preparation and sterilization of solutions, reagents and media, proper use and maintenance of laboratory equipment, adherence to quality control protocols and lab safety regulations, data collection and evaluation, basic separation methods, aseptic technique and documentation.

 **41314**      **9:00a-12:35p**      **M Tu W Th**      **Jang C**      **SAC SC-212**      **06/17-07/11**  
      **1:20p-4:55p**      **M Tu W Th**      **Jang C**      **SAC SC-212**

 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**BIOL 229, GENERAL MICROBIOLOGY**

**5.0 UNITS**

Introduction to microorganisms, their classification, structure, biochemistry, growth, control, and interactions with other organisms and the environment. Designed for biology, preprofessional, and pre-nursing (BSN) majors. *Prerequisite: Biology 109/109H and 109L, or 139, or 149, or 211, or 239, or 249, or Chemistry 119 or Chemistry 209 with a minimum grade of C.*



**Material Fee(s): \$20.00**

 **41309**      **9:30a-11:45a**      **M Tu W Th**      **Morales D**      **SAC SC-208**      **06/17-07/25**  
                  **12:00p-4:35p**      **M Tu W Th**      **Morales D**      **SAC SC-216**

**BIOL 239, GENERAL HUMAN ANATOMY**

**4.0 UNITS**

Structure of the human body. Systems, organs, and tissues are studied from human skeletons, models, charts, slides and various electronic programs. Laboratory includes the dissection of a cat and periodic demonstrations of a prosected cadaver as available.

 **41310**      **1:00p-4:05p**      **M Tu W**      **Nair A**      **SAC HS-120**      **06/17-07/25**  
                  **9:30a-12:35p**      **M Tu W**      **Barrios A**      **SAC SC-217**  
 **41311**      **1:00p-4:05p**      **M Tu W**      **Nair A**      **SAC HS-120**      **06/17-07/25**  
                  **4:30p-7:35p**      **M Tu W**      **Nair A**      **SAC SC-217**


**BIOL 249, HUMAN PHYSIOLOGY**

**4.0 UNITS**


Microscopic, macroscopic, and dynamic view of the human physiological processes. The lecture portion includes a thorough consideration of both "cell and systems" physiology. Laboratory work includes the use of techniques used in basic research, an introduction to the use of standard medical equipment, and the performance of medical laboratory tests. Non-invasive experiments are performed on students enrolled in the class.

*Prerequisite: Biology 239 with a minimum grade of C or similar Human Anatomy course.*

 **41312**      **12:30p-3:35p**      **M Tu W**      **Corches A**      **SAC HS-123**      **06/17-07/25**  
      **9:00a-12:05p**      **M Tu W**      **Nair A**      **SAC SC-213**

 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41313**      **12:30p-3:35p**      **M Tu W**      **Corches A**      **SAC HS-123**      **06/17-07/25**  
      **4:00p-7:05p**      **M Tu W**      **Corches A**      **SAC SC-213**


 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**BUSINESS (BUS)**


**BUS 100, FUNDAMENTALS OF BUSINESS**

**3.0 UNITS**


A survey in business providing a multidisciplinary examination of how culture, society, economic systems, legal, international, political, financial institutions, and human behavior interact to affect a business organization's policy and practices within the U.S. and a global society. Demonstrates how these influences impact the primary areas of business including: organizational structure and design; leadership, human resource management, organized labor practices; marketing; organizational communication; technology; entrepreneurship; legal, accounting, financial practices; the stock and securities market; and therefore affect a business' ability to achieve its organizational goals.

 **40870**      **Shweiri G**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is a \$30 material fee with no additional textbook cost.

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**Low Cost or Free Textbooks**



 **OER**

 **ZTC**


**Honors Courses:**



 **HONORS**



 **40871** **Ursuy C** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is a \$30 material fee with no additional textbook cost.



 **40872** **Grant M** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is a \$30 material fee with no additional textbook cost.



**BUS 101, BUSINESS LAW** **3.0 UNITS**  
 Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. Intended for transfer to Cal State Northridge. All others see Law 105 and Bus 105. Check with counselor for appropriate class.



 **40911** **6:00p-9:20p** **M W** **Keller P** **SAC A-130 06/17-08/11**  
 This class meets on-campus. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)


 **40895** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)


 **40901** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)


 **40906** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)

 **40920** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)


 **40923** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 101 for transfer to Cal State Northridge only. All others take BUS 105 or LAW 105 (can receive credit for only BUS 105 or LAW 105)

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**


 **HONORS**



**BUS 103, COOPERATIVE WORK EXPERIENCE-OCCUPATIONAL 1.0 - 4.0 UNITS**


This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253.



Open Entry / Open Exit



 **40873** **Staff** **SAC ONLINE 06/17-08/11**  
Mandatory orientation meeting with the instructor. Instructor will contact the student to arrange a virtual meeting during the first week of class.



**BUS 105, LEGAL ENVIRONMENT OF BUSINESS 3.0 UNITS**



Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations.



 **40917** **6:00p-9:20p** **M W** **Keller P** **SAC A-130 06/17-08/11**  
This class meets on-campus. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.

 **40900** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.

 **40904** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.


 **40909** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.


 **40922** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.


 **40925** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. BUS 105 is the same as LAW 105 - students can receive credit for only one class BUS 105 OR LAW 105.


**BUS 106, CULTURE AND INTERNATIONAL BUSINESS-KISS, BOW OR SHAKE HANDS 3.0 UNITS**

An introduction to different cultures and their effects on international business. Analysis of cross-cultural attitudes towards management, status, rules, relationships, motivating employees, and negotiation.


 **40874** **Kowsari A** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**BUS 119, DOING BUSINESS IN LATIN AMERICA AND ASIA**

**3.0 UNITS**

Learn about the advantages of growing your business by doing business in other regions around the world. Learn about the cultural, linguistic, structural and legal differences in order to be successful in these countries. Learn about the specifics of doing business in Latin American and Asian regions and countries including but not limited to Mexico, Vietnam, China, Central America, Brazil, Chile, and Japan.

 **40875**

**Kowsari A**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**BUS 120, PRINCIPLES OF MANAGEMENT**

**3.0 UNITS**

Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling and the application of managerial skills.

 **40876**

**Carr B**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is a \$30 material fee with no additional textbook cost.

**BUS 130, PERSONAL FINANCE**

**3.0 UNITS**

This course is designed to empower individuals with various tools to manage their money and make sound lifelong financial decisions. Topics include financial planning, income and expense management, investment analysis, retirement planning, consumerism, insurance, estate planning, home ownership and credit management. This course uses financial, tax, and mathematical calculations. Students will take a hands-on approach to such learning and skill development with problem-solving assignments and projects that require them to explain information presented in tax forms and financial statements. They will also obtain the knowledge and skills required to convert financial information into portrayals that contribute to an understanding of present and future personal and family financial needs. Students will also be provided with opportunities to analyze and synthesize on documents and reports. They will develop the logical reasoning skills needed by informed and productive citizens. Moreover, instructors will (a) provide student-centered activity-based instruction, (b) emphasize the conceptual understanding and skills of mathematics and quantitative reasoning, and (c) facilitate the development of competence and confidence in problem-solving abilities.

*Prerequisite: Mathematics 083 or Mathematics 084 or with a minimum grade of C or Intermediate algebra or equivalent, or a qualifying profile based on multiple measures.*

 **40776**

**Strong J**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**BUS 150, INTRODUCTION TO INFORMATION SYSTEMS AND APPLICATIONS**


**3.0 UNITS**


Introduction to computer concepts and management information systems. Application software will be used to solve business problems.

 **40806**

**Hester B**

**SAC ONLINE 06/17-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**BUS 222, BUSINESS WRITING**

**3.0 UNITS**


Overview of oral and written communication skills used in business. Emphasizes guidelines for improving writing and speaking skills, common solutions to common communication problems, ethical issues facing business communicators today, instructions on how to identify areas of legal vulnerability, and tested techniques for communicating successfully in today's high-tech, international business environment.

*Prerequisite: English 101 or 101H with a minimum grade of C.*


 **40877**

**Mostajeran Y**


**SAC ONLINE 06/17-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**


**Honors Courses:**

 **HONORS**

**BUSINESS APPLICATIONS (BA)****BA 110, COMPUTER KEYBOARDING SKILLS****0.5 UNIT**

This course is the first step in learning proper keyboarding techniques with accuracy using correct hand and finger positioning. Students will follow step-by-step instructions for all alphabet, punctuation, enter/return, and capitalization using shift keys. Typing correctly without errors will provide the skills necessary to develop speed with accuracy.

**40785****Skaggs T****SAC ONLINE 06/17-08/11**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. There is no additional textbook cost for this ZTC class.

**BA 147, MICROSOFT WINDOWS, ONEDRIVE & ONENOTE****1.5 UNITS**

This course is designed for beginning and experienced computer users needing to update and build business technology skills in using Windows. Customize settings including Start menu tiles, task bar, shortcuts, and pin apps. Learn efficient methods of using Cortana and Microsoft Edge browser. Save ideas and organize notes for planning and meetings using OneNote, a digital note-taking app. Learn proper management of files and folders using File Explorer and OneDrive cloud storage.

Software Utilized: Windows 10

**40786****Morgan A****SAC ONLINE 06/17-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. There is no additional textbook cost for this ZTC class.

**BA 158, INTRODUCTION TO DRONES****1.5 UNITS**

Introduction to using drones for commercial and recreational use. Learn how to fly drones safely and legally. Topics include types of drones, taking photos, recording videos, live stream for social media, FAA regulations, Part 107 remote pilot license and exam information, drone registration, preflight, and problem solve flight situations. Learn about the many careers and industries using drones (public safety, investigations, construction, engineering, inspections, real estate, marketing, media, delivery, insurance). Do not need to own or purchase a drone to take this course. Course is designed for beginning and experienced drone users.

**40788****Martin T****SAC HYBRID 06/17-08/11**

 **8:00a-10:00a Sa Staff SAC G-TENN**

On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu) Drones provided for this on-campus class. First class meets in A-130. All other class meetings will be at the Tennis Courts. There is no additional textbook cost for this ZTC class.

**BA 163, ADOBE ACROBAT****3.0 UNITS**

Learn to use Adobe Acrobat Pro DC to create, edit, sign, secure, and optimize PDF documents for print, web, and email. Topics include create fillable PDF forms, combine and arrange multiple files, convert PDF to Microsoft Office file formats, insert multimedia (graphics, video, audio), add security (restrictions with passwords), accessibility compliance, digital signatures, review process (add comments, proofing marks), page links, bookmarks, Bates Numbering, and Redact tool for redacting text for legal and business documents.

**40791****Dumon D****SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**BA 179, MICROSOFT OFFICE (WORD, EXCEL, POWER POINT)****3.0 UNITS**

This course is designed for beginning and experienced computer users to build business technology skills in Microsoft Office Word, Excel, and PowerPoint. Learn to use proper techniques to create, edit, format, add multimedia, export PDF, and print professional business documents, spreadsheets, and presentations. This course will prepare the student for the Microsoft Office Specialist (MOS) exams to earn industry recognized certifications in Word, Excel, and PowerPoint.


Software Utilized: MS Office 2019

**40792****Morgan A****SAC ONLINE 06/17-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**40793****Morgan A****SAC ONLINE 06/17-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**BA 188, MICROSOFT EXCEL**

**2.0 UNITS**

This course is designed for beginning and experienced computer users needing to build and update business technology skills to produce professional Excel worksheets. Learn proper techniques using current business standards to create, edit, format, export PDF, and print worksheets. Topics include charts, sorting, filtering, functions, and formulas. This course will prepare the student for the Microsoft Office Specialist (MOS) Excel exam to earn an industry recognized certification to validate technical skills for employers.

Software Utilized: MS Excel 2019

**40794 Morgan A SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**40796 Morgan A SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CHEMISTRY (CHEM)**

**CHEM 109, CHEMISTRY IN THE COMMUNITY**

**4.0 UNITS**

The non-science major will study practical applications of chemistry and the chemical principles behind them including: the scientific method, atomic structure, molecular models, and chemical reactions. Environmental and community issues will be the focus of student centered laboratories, discussions and field trips. Group work and computer activities will be used in this cooperative learning environment.

**41233 Jenkins C SAC ONLINE 06/17-08/11**  
Fully Online Instruction. No on-campus meeting times. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu)

**41234 Pratt C SAC ONLINE 06/17-08/11**  
Fully Online Instruction. No on-campus meeting times. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu)

**41235 Pratt C SAC ONLINE 06/17-08/11**  
Fully Online Instruction. No on-campus meeting times. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu)

**CHEM 209, INTRODUCTORY CHEMISTRY**

**4.0 UNITS**

Basic concepts of matter: atomic structure, formulas, equation writing, nomenclature, gases and kinetic theory. Emphasizes properties of solutions, and the mole concept in quantitative chemistry. Prepares students for biology and Chemistry 219.

*Prerequisite: Mathematics 083 or Mathematics 084 with a minimum grade of C.*

**41287 8:00a-11:20a Tu Th Eberts J SAC HS-106 06/17-08/11**  
**8:00a-11:20a M W Eberts J SAC SC-326**

**41278 9:00a-12:20p M W Littlejohn S SAC SC-308 06/17-08/11**  
**9:00a-12:20p Tu Th Littlejohn S SAC SC-326**

**41281 6:00p-9:20p Tu Th Yamada T SAC SC-308 06/17-08/11**  
**6:00p-9:20p M W Yamada T SAC SC-326**

**41285 1:25p-4:45p M W Littlejohn S SAC ONLINE 06/17-08/11**  
**McAdam J SAC SC-326**

On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

**CHEM 210, GENERAL, ORGANIC AND BIOCHEMISTRY**

**5.0 UNITS**

An introduction to the fundamental concepts of general, organic and biochemistry for majors in nursing and other allied health majors. Includes atomic structure, nuclear chemistry, bonding, solutions, acids and bases, organic nomenclature, hydrocarbons, alcohol, aldehydes, ketones, carboxylic acids, carbohydrates, proteins, lipids, nucleic acids and metabolism.

*Prerequisite: Chemistry 209 and Mathematics 083 or Mathematics 084 with a minimum grade of C.*

**42001 8:30a-1:00p M W Ayoub B SAC HS-124 06/17-08/11**  
**8:30a-11:50a Tu Th Ayoub B SAC SC-316**

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**CHEM 219, GENERAL CHEMISTRY**

**5.0 UNITS**

Fundamental principles and concepts of chemistry including, but not limited to, atomic structure, quantum theory, periodic properties, stoichiometry, oxidation-reduction, molecular structure and bonding, gas laws, states of matter, solutions, chemical kinetics and chemical equilibrium.

*Prerequisite: Mathematics 080 or Mathematics 081 or Mathematics 084 with a minimum grade of C and Chemistry 209 with a minimum grade of C or a passing score on current chemistry placement test.*

<b>C</b>	<b>41290</b>	<b>6:55a-10:15a</b>	<b>M Tu W Th</b>	<b>Staff</b>	<b>SAC HS-121</b>	<b>06/17-08/11</b>
		<b>10:25a-11:55a</b>	<b>M Tu W Th</b>	<b>Staff</b>	<b>SAC SC-311</b>	

**CHEM 229, GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS**

**5.0 UNITS**

Continuation of Chemistry 219, including but not limited to ionic equilibrium, acid and base equilibrium, thermodynamics, electrochemistry, nuclear chemistry, organic chemistry and descriptive chemistry.

*Prerequisite: Chemistry 219 or Chemistry 219H with a minimum grade of C.*

<b>C</b>	<b>41291</b>	<b>11:45a-1:15p</b>	<b>M Tu W Th</b>	<b>McAdam J</b>	<b>SAC SC-113-1</b>	<b>06/17-08/11</b>
		<b>1:25p-4:45p</b>	<b>M Tu W Th</b>	<b>Hillman W</b>	<b>SAC SC-317</b>	
<b>C</b>	<b>41292</b>	<b>11:45a-1:15p</b>	<b>M Tu W Th</b>	<b>McAdam J</b>	<b>SAC SC-113-2</b>	<b>06/17-08/11</b>
		<b>8:15a-11:35a</b>	<b>M Tu W Th</b>	<b>McAdam J</b>	<b>SAC SC-317</b>	

**CHICANO STUDIES (CHST)**

**CHST 150, INTRODUCTION TO CHICANA/CHICANO STUDIES**

**3.0 UNITS**

This course introduces the field of Chicana/Chicano/Chican@/Chicanx/Xicana/Xicano/Xicana Xicana Xicana Studies. It is designed to acquaint students with the most significant social, political, economic, and historical aspects of the Chicana/Chicano/Chican@/Chicanx/Xicana/Xicano/Xicana Xicana Xicana experience in the United States. A trans-disciplinary, multisectoral, and multidimensional approach will be employed to study Chicanas/Chicanos/Chican@s/Chicanxs/Xicanas/Xicanos/Xicanxs various experiences and their contributions to American society and culture. This course will critically analyze the societal context in which the Chicana/Chicano/Chican@/Chicanx/Xicana/Xicano/Xicana Xicana Xicana have sought to maintain their culture. This course is designed to present a foundation in Chicana/Chicano/Chican@/Chicanx/Xicana/Xicano/Xicana Xicana Xicana Studies.

<b>O</b>	<b>42384</b>		<b>Valles R</b>	<b>SAC ONLINE</b>	<b>06/17-07/28</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				
<b>O</b>	<b>42385</b>		<b>Valles R</b>	<b>SAC ONLINE</b>	<b>06/17-07/28</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				
<b>O</b>	<b>42386</b>		<b>Gonzalez T</b>	<b>SAC ONLINE</b>	<b>07/15-08/11</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				
<b>O</b>	<b>42387</b>		<b>Pennings M</b>	<b>SAC ONLINE</b>	<b>07/15-08/11</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				
<b>O</b>	<b>42388</b>		<b>Herrera R</b>	<b>SAC ONLINE</b>	<b>06/17-07/28</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				
<b>O</b>	<b>42389</b>		<b>Camacho J</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>	
		Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.				

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Low Cost or Free Textbooks

 **OER**

 **ZTC**

Honors Courses:
















 **HONORS**

## CHILD DEVELOPMENT (CDEV)

### CDEV 107, CHILD GROWTH AND DEVELOPMENT (DS1)

**3.0 UNITS**

This course examines the major physical, cognitive, social and emotional developmental milestones for children, from conception through adolescence. Emphasis on interactions between maturational processes and environmental factors. Students will observe children, evaluate individual differences, and analyze characteristics of development at various stages according to developmental theories. (No credit if a student has taken Psychology 157.)

- |   |                     |                     |                               |
|---|---------------------|---------------------|-------------------------------|
| <br><br>  | <b>43051</b>        | <b>Naman T</b>      | <b>SAC ONLINE 06/17-07/28</b> |
| Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.                              |                     |                     |                               |
| <br><br>  | <b>43062</b>        | <b>Kimmel M</b>     | <b>SAC ONLINE 06/17-07/28</b> |
| Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.                              |                     |                     |                               |
| <br><br>  | <b>43063</b>        | <b>Becerra C</b>    | <b>SAC ONLINE 06/17-08/11</b> |
| Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.                              |                     |                     |                               |
| <br><br>  | <b>43065</b>        | <b>Lamourelle C</b> | <b>SAC ONLINE 06/24-08/11</b> |
| Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.                              |                     |                     |                               |
| <br><br>  | <b>43066</b>        | <b>Nunez Y</b>      | <b>SAC ONLINE 06/17-08/11</b> |
|   | <b>6:30p-8:30p</b>  | <b>Th</b>           | <b>SAC V-150</b>              |
| On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. <a href="https://canvas.sac.edu">canvas.sac.edu</a> Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.   |                     |                     |                               |
| <br><br>   | <b>43067</b>        | <b>Vargas R</b>     | <b>SAC ONLINE 06/17-08/11</b> |
|   | <b>9:00a-12:00p</b> | <b>Th</b>           | <b>SAC V-150</b>              |
| On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. <a href="https://canvas.sac.edu">canvas.sac.edu</a> Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.   |                     |                     |                               |
| <br><br>  | <b>43069</b>        | <b>Lamourelle C</b> | <b>SAC ONLINE 06/24-08/11</b> |
|   | <b>6:00p-8:00p</b>  | <b>W</b>            | <b>SAC ZOOM</b>               |
| Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. <a href="https://canvas.sac.edu">canvas.sac.edu</a> . There will be no instruction on-campus. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. |                     |                     |                               |
|   | <b>43072</b>        | <b>Becerra C</b>    | <b>SAC ONLINE 06/17-08/11</b> |
| Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. <a href="https://canvas.sac.edu">canvas.sac.edu</a> There will be no instructional meetings.   |                     |                     |                               |

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**CDEV 108, OBSERVATION AND ASSESSMENT FOR EARLY LEARNING AND DEVELOPMENT (DS3) 3.0 UNITS**

Introduces the appropriate use of assessment and observation tools and strategies to document young children’s development and learning. The use of findings to inform and plan learning environments and experiences are emphasized. Recording strategies, rating systems, portfolios, and multiple assessment tools will be discussed along with strategies for collaboration with families and professionals.

*Prerequisite: Child Development 107 with a minimum grade of C. By the 1st week of the class, verification of the state-mandated Tdap vaccination, MMR immunization, flu vaccine, negative TB test, and statement of good health is required.*

**VH 43070** **Lopez R** **SAC ONLINE 06/17-08/11**  
**8:30a-11:00a Tu Staff SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**VH 43073** **Cox K** **SAC ONLINE 06/17-08/11**  
**6:00p-8:00p W Staff SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**CDEV 110, CHILD, FAMILY, AND COMMUNITY (DS2) 3.0 UNITS**

The processes of socialization focusing on the interrelationship of family, school, and community. Examines the influence of multiple societal contexts. Explores the role of collaboration between family, community, and schools in supporting children’s development, birth through adolescence.

**O 43075** **Norton J** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 43077** **Seneviratne A** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**VH 43078** **Navarro M** **SAC ONLINE 06/17-08/11**  
**6:00p-8:00p M Staff SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**H 43080** **Navarro M** **SAC ONLINE 06/17-08/11**  
**1:30p-3:30p W Staff SAC V-150**

On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

**CDEV 112, HEALTH, SAFETY, AND NUTRITION FOR CHILDREN 3.0 UNITS**

Laws, regulations, standards, policies, procedures, and best practices related to health, safety, and nutrition in care and education settings for children birth through middle childhood. Includes the teacher’s role in prevention strategies, nutrition and meal planning, integrating health safety and nutrition experiences into daily routines, and overall risk management.

*Prerequisite: By the 1st week of the class, verification of the state-mandated Tdap vaccination, MMR immunization, flu vaccine, negative TB test, and statement of good health is required.*

**O 43076** **Vargas R** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CDEV 200, INTRODUCTION TO TECHNOLOGY IN EARLY CHILDHOOD EDUCATION 2.0 UNITS**

This course provides students knowledge about and experience with technological tools used in early childhood settings. Students will have the opportunity to evaluate the impact of technology related to the growth and development of children and developmentally appropriate practices. Emphasis will be on basic knowledge and practice within a wide variety of current and emerging technologies and will focus on how to integrate them into the learning environment.

**O 43084** **Naman T** **SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**CDEV 205, INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS 3.0 UNITS**

Introduces the variations in development of children and adolescents with special needs and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process.

**43086** Kimmel M SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**43088** Kimmel M SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CDEV 214, CREATIVE ART EXPERIENCES FOR CHILDREN 2.0 UNITS**

Emphasizes the child's (ages 2 through 8 years) ability to represent and expressively use art media. Includes theoretical as well as practical application and the role of adult in fostering creativity.

**43090** Mc Innish A SAC ONLINE 06/17-07/14  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CDEV 221, LIVING AND TEACHING IN A DIVERSE SOCIETY 3.0 UNITS**

Examines the impact of various societal influences on the development of children's personal and social identity. Covers developmentally appropriate, inclusive, culturally relevant, and anti-bias approaches. Self-examination and reflection on issues related to social identity, stereotypes, and biases will be explored.

**43091** Becerra C SAC ONLINE 06/17-08/11  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CDEV 229, BRAIN DEVELOPMENT AND LEARNING 2.0 UNITS**

This class explores the development of the brain for children from birth through adolescence, and how behavior and learning are affected. Brain-based learning strategies will be used to teach new ways of approaching learning including how to understand diverse learning styles. This course is designed for educators, parents, and students who are interested in knowing more about how the brain operates and how environment affects the brain.

**43092** Lamouelle C SAC ONLINE 06/17-07/28  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CDEV 232, MATH AND SCIENCE METHODS FOR EARLY LEARNING ENVIRONMENTS 2.0 UNITS**

Introduces early learning teachers to basic math and science principles and the standards established by the National Council of Teachers of Mathematics, National Science Content Standards for early learning environments and Next Generation Science Standards. This course includes theoretical and practical applications for problem-solving and critical thinking that are common to math and science. Students will develop a personal file of appropriate math/science activities for early learning.

**43083** Seneviratne A SAC ONLINE 06/17-08/11  
6:30p-8:30p Tu Staff SAC ZOOM

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**CDEV 298A, PRACTICUM IN EARLY CHILDHOOD PROGRAMS 3.5 UNITS**

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice, and enhance professional-behaviors. Students will plan and implement child-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for young children.

*Prerequisite: Child Development 107, Child Development 108, Child Development 110, Child Development 111A, Child Development 111B, Child Development 112, and Child Development 221 with a minimum grade of C. And by the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

**43085** 6:00p-8:10p Tu Th Mc Innish A SAC V-151 06/17-08/11

This class meets on-campus. This class has 81 hours of arranged lab instruction.

**O** ONLINE: Fully Online Instruction - Time-flexible online course with no scheduled meeting times

**OL** FULLY ONLINE LIVE: Fully Online Live Instruction - Live streaming instruction via Zoom

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS



**CDEV 298B, PRACTICUM IN INFANT/TODDLER PROGRAMS**

**3.5 UNITS**

Under guided supervision in a RSCCD Child Development Center or approved mentor site, students will demonstrate competency in connecting theory to practice and enhance professional behaviors. Students will plan and implement infant/toddler-centered, play-oriented approaches to teaching, learning, and assessment. Knowledge of curriculum content areas will be emphasized as students design, implement, and evaluate positive experiences for infants and toddlers.

*Prerequisite: Child Development 107, Child Development 108, Child Development 110, Child Development 112, Child Development 116A, Child Development 116B, and Child Development 221 with a minimum grade of C. And By the 3rd week of the semester, verification of the state-mandated Tdap vaccination, MMR immunization, and negative TB test will be required.*

**C 43089 6:00p-8:10p Tu Th Mc Innish A SAC V-151 06/17-08/11**  
 This class meets on-campus. This class has 81 hours of arranged lab hours.

**COMMUNICATION STUDIES (CMST)**

**CMST 100, INTRODUCTION TO COMMUNICATION STUDIES**

**3.0 UNITS**

This course explores the basic history, assumptions, principles, processes, variables, methods, and specializations of human communication as an academic field of study. The student develops an understanding of the communication process, the basic elements of improving interpersonal communication, and how to reduce communication apprehension. Also included are leadership, small groups, intercultural communication, interviewing, and speech preparation. This course includes oral presentations, rhetorical theory, and communication theories.

**O 41574 Cummings R SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CMST 101, INTRODUCTION TO INTERPERSONAL COMMUNICATION**

**3.0 UNITS**

Introduction to communication theory, rhetoric, listening, perception, language usage, nonverbal communication, and conflict management. Students participate in oral and written exercises and simulations; these activities are designed to enhance communicative awareness and skills in interpersonal contexts. It is designed to assist students in improving their own interpersonal and oral communication skills.

*Recommended Preparation: Completion of or concurrent enrollment in English 101 or English 101H with a minimum grade of C.*

**C 41578 6:00p-9:05p M Tu W Staff SAC C-213 06/17-07/28**

**O 26279 Labreau K SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**O 26280 Labreau K SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**O 26281 Saterfield K SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CMST 102, PUBLIC SPEAKING**

**3.0 UNITS**

Teaches critical thinking skills in relation to public speaking. Emphasis on the process, principles, and major facets of critical thinking with practice through oral presentations.

**C 26283 9:00a-12:05p M Tu W Ayala E SAC C-213 06/17-07/28**

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**O 26284 Pierce C SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

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Low Cost or Free Textbooks




 OER




 ZTC


Honors Courses:


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 **26286** **Cummings R** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
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 **26288** **Ngo K** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.




 **26289** **Durango D** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.




 **26290** **Lockwood L** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **33600** **Lockwood L** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**CMST 103, INTRODUCTION TO INTERCULTURAL COMMUNICATION 3.0 UNITS**  
 A general view of the sociological, psychological, and communication patterns of various cultural groups. Special emphasis on the methods, skills, and techniques necessary for effective intercultural, cross cultural, and interracial communication. Stresses the development of analytical thinking, speaking, and writing skills.


 **41587** **Rehm D** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

 **41588** **Rehm D** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

 **41596** **Saterfield K** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**CMST 140, ARGUMENTATION AND DEBATE 3.0 UNITS**  
 Principles of debate techniques with emphasis on methods of logical analysis and reflective thinking. Practical application through adaptation of material to forms of debate on current issues.


 **41608** **Lockwood L** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **41609** **Lockwood L** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CMST 145, GROUP DYNAMICS 3.0 UNITS**  
 Principles and methods of communication as applied in the small group setting. Emphasis on communication skills, processes, and operations in the small group. Includes understanding group dynamics and cooperative problem solving.

*Recommended Preparation: Recommended Communication Studies 097 for non-native speakers.*


 **41611** **1:00p-4:35p** **M Tu W Th** **Fondren S** **SAC C-207** **06/17-07/11**

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**


 **41610** **Pierce C** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.  
 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.


## COMPUTER SCIENCE (CMPR)

### **CMPR 100, THE COMPUTER AND SOCIETY 3.0 UNITS**

An introduction to the area of computers and their relationship to today's information society. Examines a broad overview of topics including hardware, software, networking, information technology, and the Internet. The student will explore the implications and effect of technology on society, careers, and ethics.

Software Utilized: MS Office 2019/365

 **40807** **Nguyen H** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **40810** **Quach N** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### **CMPR 101, PROGRAMMING SURVEY 0.5 UNIT**


This survey course introduces students to C++ programming language. Students will code, compile and execute programs that control hardware. Students will be learning the input-process-output (IPO) model, a widely used approach in systems analysis and software engineering, that receives inputs from a user or other source, does computations on the inputs, and returns the results of the computations.

 **40812** **9:00a-11:05a** **F** **Quach N** **SAC A-206 07/15-08/11**  
 This class meets on-campus.

### **CMPR 104, COOPERATIVE WORK EXPERIENCE EDUCATION-OCCUPATIONAL 1.0 - 4.0 UNITS**

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, Section 55253.

Open Entry / Open Exit

 **40839** **Nguyen H** **SAC ONLINE 06/17-08/11**  
 Mandatory orientation meeting with the instructor. Instructor will contact the student to arrange a virtual meeting during the first week of class.

### **CMPR 112, JAVA PROGRAMMING 3.0 UNITS**

This is an introduction Java programming course. Students will learn the Java programming language and syntax for solving problems, and utilize an integrated development environment (IDE) for developing Java applications, and Java virtual machine (JVM) to execute Java programs. The course emphasizes computer science concepts: data types, mathematical operations, I/O (input/output) operations, conditions, iterations, and functions. In addition, software design principles, practices, and utilizing structured methodologies will be covered.


Software Utilized: Java 2 SDK V 1.4.2


 **40850** **6:00p-9:20p** **M W** **Quach N** **SAC A-206 06/17-08/11**  
 This class meets on-campus.

### **CMPR 113, ADVANCED JAVA 3.0 UNITS**


This advanced Java programming course is project-oriented. Students will get reinforced with advanced Java techniques to solve more complex problems. The course highlights the computer science object-oriented (OOP) paradigm: advanced class design, encapsulation, aggregation, inheritance and development. In addition, GUI (Graphical User Interface) programming, recursion exception and database programming will be covered.

*Prerequisite: Computer Science 112 with a minimum grade of C.*


 **40852** **6:00p-9:20p** **Tu Th** **Sim J** **SAC ZOOM 06/17-08/11**  
 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

 **ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**CMPR 114, PYTHON PROGRAMMING**

**3.0 UNITS**

Students will be introduced to the syntax of Python, methods used to incorporate Python into creating business applications, and create interactive forms. Students will also learn to enhance business applications using interactive programming utilizing forms, objects, looping constructs, variables, classes, and the use of various data types.

**OL 40861 6:00p-9:20p M W Sim J SAC ZOOM 06/17-08/11**  
 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**CMPR 120, INTRODUCTION TO PROGRAMMING**

**3.0 UNITS**

This introduction C++ programming course is project-oriented. Students will learn the C++ programming language and syntax for solving problems, and utilize MS Visual Studio IDE (Integrated Development Environment) to edit, compile, test, debug code and deploy computer programs. The course emphasizes computer science concepts: data types, mathematical operations, I/O (input/output) operations, conditions, iterations, and functions. In addition, software design principles, practices, and utilizing structured methodologies will be covered.

*Prerequisite: Completion of intermediate algebra or higher or eligibility for transfer-level mathematics based on multiple measures.*

**O 40862 Aziz T SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 40863 Aziz T SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 40864 Aziz T SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CMPR 123, INTRODUCTION TO IT AND CYBERSECURITY**

**0.5 UNIT**

An introductory course with hands-on training concepts and terminology required for careers in IT and cybersecurity. Topics include responsibilities, operational policies, best industry practices, industry certifications, and demonstrations of tools and tasks.

**O 40865 Nguyen H SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CMPR 140, DISCRETE STRUCTURES FOR COMPUTER SCIENCE**

**3.0 UNITS**

Course presents the fundamentals of discrete mathematics as applied to the computer sciences. Topics include sets, relations, functions, basic logic, proof techniques, counting, graphs, trees and probability. Recommended preparation: College Algebra.

**VH 40866 Sweeney G SAC ONLINE 06/17-07/28**  
**3:00p-5:00p M W Staff SAC ZOOM**  
 Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**VH 40885 Sweeney G SAC ONLINE 06/17-07/28**  
**3:00p-5:00p Tu Th Staff SAC ZOOM**  
 Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.


**COUNSELING (CNLS)**

**CNLS 116, CAREER/LIFE PLANNING AND PERSONAL EXPLORATION**

**3.0 UNITS**

This course is designed to assist students in successfully establishing and achieving their education, career, and life goals. Students are guided through a reflective process that focuses on values, interests, personality, skills, and learning styles. Career and educational options are researched, and students are exposed to college resources and support services. Decision-making models and goal-setting techniques are examined and will be used to develop short and long term education, and career and life plans.

**Material Fee(s): \$16.00**

**C 42986 5:00p-9:15p M W Staff SAC I-108 06/12-07/28**  
 Material Fee: \$16.00 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**O ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

 **42985** **Staff** **SAC ONLINE 06/17-07/28**  
  Material Fee: \$16.00 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**CNSL 144, REASONING AND PROBLEM SOLVING** **3.0 UNITS**  
 The nature of critical thinking, models, and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to complex issues of life.

 **42991** **Staff** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42993** **Staff** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42994** **Staff** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**CNSL 150, INTRODUCTION TO HUMAN SERVICES** **3.0 UNITS**  
 The history and philosophy of human services including theoretical frameworks, the function and orientation of human service organizations and the roles and qualifications of human service workers. A study of the target populations served by the human services and the professional, ethical, and cultural issues facing the human service field.


 **42995** **Staff** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


## CRIMINAL JUSTICE (CJ)


**CJ 101, INTRODUCTION TO CRIMINAL JUSTICE** **3.0 UNITS**  
 This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces that have shaped those principles and approaches. Although justice structure and process are examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies.


 **43100** **Gonis Jr A** **SAC ONLINE 07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**CJ 103, CONCEPTS OF CRIMINAL LAW** **3.0 UNITS**  
 This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes.


 **43099** **Huskey J** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

## CRITICAL AND ACADEMIC READING (CAR)

### CAR 150, CRITICAL READING

3.0 UNITS


This course addresses the relationship between critical reading and critical thinking, including emphasis on the development of critical reading and thinking skills that facilitate the interpretation, analysis, criticism, and advocacy of ideas encountered in academic reading.

*Recommended Preparation: Completion of or concurrent enrollment in English 101 or English 101H is recommended.*

 **41974**

Colunga M

SAC ONLINE 06/17-07/14

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials.

## CULINARY ARTS (CULN)

### CULN 110, FOOD SAFETY AND SANITATION

2.0 UNITS

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management.

 **41304**

Christensen J

SAC ONLINE 06/17-08/11

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

## DANCE (DNCE)

### DNCE 100, DANCE HISTORY AND APPRECIATION

3.0 UNITS

The development of dance in Western Europe and the U.S. from ancient times to the present. Explores dance as an emerging art form from the Renaissance to the 21th Century. Emphasizes the contemporary dance heritage of the United States.

 **26233**

Westergard-Dobson C

SAC ONLINE 06/17-08/11

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

## DIESEL (DSL)

### DSL 151, SUSPENSION AND STEERING

4.5 UNITS

This course covers the suspension and steering systems used on medium and heavy duty trucks. Primary focus includes frame, 5th wheel diagnosis and repair, wheel alignment, wheels, tires, hubs, and steering diagnosis. Correct service procedures and diagnosis of these systems are emphasized as required on modern medium and heavy duty vehicles. Field trips may be required.

 **43229**

Lopez Garcia L

SAC ONLINE 06/17-08/11

12:30p-5:40p

Tu Th

Vasilik R

SAC J-109

On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

### DSL 171, HEATING, VENTILATION, AND AIR CONDITIONING

3.5 UNITS

Operation, testing, and servicing of truck cab air conditioning and heating systems as well as auxiliary power units. Safety, refrigerant recovery, special equipment, and controls will be covered. Applied air conditioning theory will also be covered. The EPA 609 certification is a segment of this course. This course helps prepare students for the T7 ASE certification exam. Field trips may be required.

 **43103**

Lopez Garcia L

SAC ONLINE 06/17-07/28


6:00p-10:35p

Tu Th


Lopez Garcia L

SAC J-109


On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

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Low Cost or  
Free Textbooks

 OER

 ZTC


Honors Courses:


 HONORS

**DIGITAL MEDIA (DM)****DM 102, HISTORY OF GLOBAL CINEMA****3.0 UNITS**

A survey course exploring global cinema as an art form, and developing appreciation of historical, artistic, and technical advances from the 1890s to the present, with focus on cinema from around the world.

**26234****Hall J****SAC ONLINE 06/17-08/11**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**DM 103, HISTORY OF FILM TO 1945****3.0 UNITS**

A survey course exploring film as an art form and developing appreciation of historical, artistic, and technical advances from 1890s to 1945.

**26235****Taylor M****SAC ONLINE 06/17-08/11**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**DM 104, HISTORY OF FILM FROM 1945 TO PRESENT****3.0 UNITS**

A lecture/visual aids course exploring film as an art form and developing appreciation of historical, artistic and technical advances.

**VH 28567****Hall J****SAC ONLINE 06/17-08/11****9:00a-11:15a M W****Staff****SAC ZOOM**

 Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**DM 105, HISTORY OF LATIN AMERICAN CINEMA****3.0 UNITS**

A survey course exploring Latin-American cinema as an art form, and developing appreciation of historical, artistic, and technical advances from the 1890s to the present, aimed at fostering a lasting engagement with both film culture and Latin America.


**41633****Lunel E****SAC ONLINE 06/17-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**DM 107, HISTORY OF ANIMATION****3.0 UNITS**

Critical and historical survey of animation as a form of communication and cultural expression, from prehistoric origins to present digital formats. Animation history is studied in relation to the background for its creation in contemporary culture and society including the U.S.A., Europe, and Japan. Students analyze and evaluate a large cross-section of animated works.

**26237****Kumar A****SAC ONLINE 06/17-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


 Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**DM 120, BEGINNING SCREENWRITING FOR DIGITAL MEDIA****3.0 UNITS**


Use your creativity to write your own ticket! Basic introductory course in narrative script writing for film and episodic television. Emphasis on basic screenplay structure, characters, conflict, theme and technical script formatting in the development of a short screenplay.

**41634****Lunel E****SAC ONLINE 06/17-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**DM 162, DIGITAL ILLUSTRATION I**

**3.0 UNITS**

Explores the essentials of illustration for graphic designers and concept artists, using industry-standard production and design tools. Focuses on professional studio techniques to master this essential design tool for the creation of sophisticated graphics. Emphasizes efficient workflow, technical proficiency, and aesthetic judgment. Students produce portfolio-ready projects using a broad range of imaging skills. The primary software used includes Adobe Photoshop, supplemented with Adobe Illustrator, and some time-based media software.

*Recommended Preparation: Digital Media 195 or Art 195 is recommended.*

**26238**

**Fitch A**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**DM 195, INTRODUCTION TO DIGITAL MEDIA ARTS**

**3.0 UNITS**

Foundation-level course designed for graphic designers, artists, photographers, web designers, programmers, and animation artists working in the digital realm. This course includes an overview of industry-standard software, including Adobe Creative Cloud for digital design in montage, vector, layout and time-based media.

**26240**

**Clark S**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**26242**

**Synicky C**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**EARTH SCIENCES (ERTH)**

**ERTH 110, INTRODUCTION TO EARTH SCIENCE**

**3.0 UNITS**

A study of the processes that shape and form the Earth and define its place in the solar system. Introduction to the sciences of geology, oceanography, meteorology, and astronomy. Not open to students who are enrolled, or have credit in Geology 101 or Geography 101. Optional half-day field trip.

**41276**

**Coyne C**

**SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**ECONOMICS (ECON)**

**ECON 120, PRINCIPLES/MACRO**

**3.0 UNITS**

Introduction to macroeconomics, including basic economic concepts, analysis of markets, national income accounting, employment, short run business cycle fluctuations, long run growth trends, monetary and fiscal policies, and international economic issues. Intended for economics, business, and certain engineering/computer science majors. *Prerequisite: Mathematics 060 or Mathematics 083 or Mathematics 084 with a minimum grade of C.*

**41869**

**Levine M**

**SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**41873**

**Allen M**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ECON 121, PRINCIPLES/MICRO**

**3.0 UNITS**

Introduction to microeconomics, including basic economic concepts, analysis of markets, efficiency, consumer and firm behavior, industry structures, market failure, and resource markets. For economics, business, and certain engineering and computer science majors.

*Prerequisite: Mathematics 060 or Mathematics 083 or Mathematics 084 with a minimum grade of C.*

**41870**

**Levine M**

**SAC ONLINE 06/17-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**41871**

**Werboff A**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**



- 41874** **Do H** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### EDUCATION (EDUC)

**EDUC 203, INTRODUCTION TO CHILDREN WITH SPECIAL NEEDS** **3.0 UNITS**  
Introduces the variations in development of children and adolescence with special needs, and the resulting impact on families. Includes an overview of historical and societal influences, laws relating to individuals with special needs, and the identification and referral process.

- 43095** **Kimmel M** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 43096** **Kimmel M** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### EMERGENCY MEDICAL TECHNICIAN (EMT)

**EMT 104, EMERGENCY MEDICAL TECHNICIAN** **10.0 UNITS**  
Basic course for Emergency Medical Technician (EMT) certification. Satisfies training requirements for National/State/County Emergency Medical Services (EMS) Authorities. Prepares students to take the National Registry Certifying Examination for State Certification. Additionally, trains students in the Orange County Emergency Medical Services (OCEMS) optional scope of practice. Course provides depth and breadth of foundational knowledge from the US Department of Transportation’s National Scope of Practice Model and the National EMS Education Standards derived for entry-level EMT.

*Corequisite: Current American Heart Association "BLS Provider" CPR Certification and concurrent enrollment in Emergency Medical Technician 105.*

- 41562** **8:00a-1:10p** **Tu Th Sa** **Dibb P** **SAC HS-304-1 06/10-08/11**  
**1:20p-2:50p** **Tu Th Sa** **Dibb P** **SAC HS-304-1**

A current American Heart Association BASIC BLS CPR card is REQUIRED to be shown on the first day. FAILURE TO SHOW YOUR AMERICAN HEART ASSOCIATION CARD WILL RESULT IN BEING DROPPED from class. Students registering for EMT 104 Section 41562 are required to register for EMT 105 section 41563.

**EMT 105, CLINICAL EMT SKILLS LABORATORY** **1.0 UNIT**  
Clinical, field experience, and supervised use of skills lab through supplemental learning to assist the student in development of clinical competency and mastery of psychomotor skills as addressed in course EMT 104. Hours verified by instructor.

*Corequisite: American Heart Association "Basic Life Support (BLS) Provider" CPR Certification and concurrent enrollment in Emergency Medical Technician 104.*

- 41563** **Dibb P** **SAC HS-304-1 06/10-08/11**

A current American Heart Association BASIC BLS CPR card is REQUIRED to be shown on the first day. FAILURE TO SHOW YOUR AMERICAN HEART ASSOCIATION CARD WILL RESULT IN BEING DROPPED from class. Students registering for EMT 105 Section 41563 are required to register for EMT 104 section 41562.

### ENGINEERING (ENGR)

**ENGR 060, ROBOTICS SURVEY** **0.5 UNIT**  
This course introduces students to basic robotics. Students will program a robot to receive sensor input, control motors, and produce behaviors. Course provides student exposure to robotics, which now plays a major role in modern manufacturing and industrial automation.

- 41973** **4:30p-7:30p** **M** **Demet M** **SAC A-225 06/17-07/01**  
This class meets on-campus on Mondays, 6/17/24, 6/24/24, and 7/1/24.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**ENGR 100A, INTRODUCTION TO ENGINEERING**

**3.0 UNITS**

The course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Explains the engineering education pathways and explores effective strategies for students to reach their full academic potential. Presents an introduction to the methods and tools of engineering problem solving and design including the interface of the engineer with society and engineering ethics. Develops communication skills pertinent to the engineering profession.

**40867** **Castellanos C** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ENGR 103, SOLIDWORKS BEGINNING SOLID MODELING**

**3.0 UNITS**

Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD). This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies.

**40858** **Buechler M** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ENGR 111, BASIC MECHANICAL BLUEPRINT READING**

**2.0 UNITS**

Reading and interpreting blueprints for manufacturing technologies.

**40859** **Buechler M** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ENGR 114, GEOMETRIC DIMENSIONING AND TOLERANCING**

**3.0 UNITS**

Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing.

**40860** **Corley G** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ENGR 183, AUTOCAD I**

**4.0 UNITS**

A first course in AutoCAD by Autodesk, an industry standard engineering CAD software, especially in the civil and architectural fields. Topics include display and file management, units, entities, object selection, advanced editing, layers, dimensions, text, and graphic exchange.

Software Utilized: AutoCAD 2020

**40868** **Tse H** **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ENGR 185, CIVIL 3D**

**4.0 UNITS**

Course teaches Autodesk Civil 3D - an industry standard CAD software for civil engineers. Topics include advanced modeling, model merging, project management, parcels, surveys, surfaces, alignments, profiles, 3D rendering, and presentation. Prior coursework or experience with AutoCAD is strongly suggested.

Software Utilized: AutoCAD 2014

**40869** **Rodriguez J** **SAC ONLINE 06/17-08/11**  
**6:00p-8:00p Th Staff SAC ZOOM**

Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**ENGLISH (ENGL)**

**ENGL 101, FRESHMAN COMPOSITION**

**4.0 UNITS**

Expository and argumentative essays and the research paper. Special interest sections described in schedule of classes.

*EMLS 112 or ENGL 061 or ENGL 061X: English 061 or English 061X or English for Multilingual Students 112 with a minimum grade of C or qualifying profile from English placement process.*

<b>42282</b>	<b>9:00a-2:05p</b>	<b>M Tu W Th</b>	<b>Isbell J</b>	<b>SAC D-110</b>	<b>06/17-07/14</b>
<b>42283</b>	<b>9:00a-1:15p</b>	<b>M Tu W Th</b>	<b>Isbell J</b>	<b>SAC D-110</b>	<b>07/15-08/11</b>
<b>42240</b>	<b>10:15a-1:20p</b>	<b>M Tu W Th</b>	<b>Martinez Guzman D</b>	<b>SAC D-109</b>	<b>06/17-07/28</b>
<b>42238</b>	<b>1:30p-4:35p</b>	<b>M Tu W Th</b>	<b>Martinez Guzman D</b>	<b>SAC D-109</b>	<b>06/17-07/28</b>

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Low Cost or Free Textbooks


 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

- 42232** **Bootman A** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42235** **Bootman A** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42237** **Simmerman S** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42239** **Axtell C** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42241** **Rocke B** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42263** **Simmerman S** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42264** **Ramshaw C** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42265** **Ramshaw C** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42269** **Higgins C** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.
- 42272** **Bassett D** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42284** **Aziz S** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42285** **George S** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- 42286** **Bassett D** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **ENGL 101H, HONORS FRESHMAN COMPOSITION** **4.0 UNITS**  
 An enriched exposure to expository and argumentative essays and the research paper, requiring in-depth analysis of issues and substantive treatment of student-selected topics.

*Prerequisite: A college GPA or high school GPA for first-term college students of 3.0 or higher AND completion with a grade of "C" or better in EMLS 112, or ENGL 061X, or ENGL 061.*

- 42287** **Bassett D** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**ENGL 102, LITERATURE AND COMPOSITION**

**4.0 UNITS**


A second semester course in composition and literature that uses literature to develop critical thinking skills with extensive readings selected from the four major genres.

*ENGL 101 or ENGL 101H: English 101 or English 101H with a minimum grade of C.*

 **42288**

**Diller J**

**SAC ONLINE 07/15-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**ENGL 103, CRITICAL THINKING AND WRITING**

**4.0 UNITS**

This course focuses on developing critical thinking, reading, and writing skills by studying established argumentative methods and models and applying them to contemporary issues. Emphasis will be on logical reasoning and analytical and argumentative skills necessary for critical writing.

*ENGL 101 or ENGL 101H: English 101 or English 101H with a minimum grade of C.*

 **42360**

**8:00a-3:00p M Tu W Th F Sa Su Kelley S**

**SAC UCI 07/19-07/28**

 **42289**

**Villa B**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42290**

**Beyersdorf M**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **ENGL 103H, HONORS CRITICAL THINKING AND WRITING**

**4.0 UNITS**

Enriched and intensive exploration of historical and contemporary issues. Application of critical thinking, writing and reading skills to established argumentative methods and models through student- initiated discussion and problem-solving in a seminar setting.

*Prerequisite: A college GPA or high school GPA for first term college students of 3.0 or higher and English 101 or English 101H with a minimum grade of C.*

 **42362**

**8:00a-3:00p M Tu W Th F Sa Su Kelley S**

**SAC UCI 07/19-07/28**

**ENGL 270, CHILDREN'S LITERATURE**

**3.0 UNITS**

A study of literature for children emphasizing the history, trends, issues, and evaluation of all major genres: picture books, poetry, drama, traditional literature, non-fiction, and fiction, including full-length works.

*Prerequisite: English 101 or English 101H with a minimum grade of C.*

 **42373**

**Axtell C**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**ETHNIC STUDIES (ETHN)**

**ETHN 150, INTRODUCTION TO ETHNIC STUDIES**

**3.0 UNITS**

This course serves to broaden the ethnic and racial perspectives of students interested in American culture and society. A trans-disciplinary, multisectoral, and multidimensional approach will be employed to study the social, cultural, political, and economic aspects of four ethnic groups -- Native/First People Americans, African/Black Americans, Chicana/Chicano/Chican@/Chicanx/Xicana/Xicano/Xicana/x/Latin/Latina/Latino/Latine/Latinx Americans, and Asian Americans. Emphasis is placed on these groups' historical and contemporary relationships with each other and the rest of American society-Duplicate credit not granted for ETHN 150H.

 **42377**

**Valles R**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42379**

**Valles R**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **42380**

**Gonzalez T**

**SAC ONLINE 07/15-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


 **42381**


**Pennings M**

**SAC ONLINE 07/15-08/11**


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 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

- O **42382** **Herrera R** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- O **42383** **Camacho J** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

## FASHION DESIGN MERCHANDISING (FDM)

### FDM 052, KNIT AND SWIM SUIT SEWING

**3.0 UNITS**

Construction techniques to sew lingerie, bathing suits, athletic attire, and knit t-shirts. Emphasis is placed on serger and cover-stitch machine operation, fitting issues, and garment specification measurement techniques as related to knit garments for domestic and offshore production.

- H **40762** **Benson K** **SAC HYBRID 06/17-07/28**  
**10:00a-2:15p** **Tu Th** **Benson K** **SAC T-201**  
 On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu).

### FDM 100, INTRODUCTION TO THE FASHION INDUSTRY

**3.0 UNITS**

Introduction to the development, structure, and interrelationship of the global fashion industry, including: Consumer characteristics, product design, textile and apparel production, retail merchandising, brand marketing, distribution, and promotion. An introduction to apparel business organizations, their commercial processes and career opportunities. Oral, written, and multimedia reports on current topics relevant to the fashion industry.

- O **40760** **Staff** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### FDM 105A, BEGINNING SEWING

**3.0 UNITS**

Apparel garment construction techniques including seam finishes, edge finishes, manipulating garment fullness, and applying closures. Students will construct three full-sized garments and a compilation of construction techniques. Students will conduct and document garment fittings, alter patterns, and apply fitting alterations to the sewn projects.

- H **40761** **Benson K** **SAC HYBRID 06/17-07/28**  
**10:00a-2:15p** **Tu Th** **Benson K** **SAC T-201**  
 On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu).

- O **40763** **Benson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### FDM 105B, INTERMEDIATE SEWING

**3.0 UNITS**

Follow-up of Fashion Design Merchandising 105A, Beginning Sewing. Coordination of woven fabrics and pattern fitting in construction of class projects such as pants, dress shirts, and unlined jackets. Includes intermediate sewing technique samples such as tailored plackets, various fly zipper applications, bound buttonholes, and welt pockets. *Recommended Preparation: Recommended preparation includes being able to name and sew a minimum of six different types of seams and hems without having to look them up or completion of Fashion Design Merchandising 105A, Beginning Sewing.*

- H **40764** **Benson K** **SAC HYBRID 06/17-07/28**  
**10:00a-2:15p** **Tu Th** **Benson K** **SAC T-201**  
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- O **40765** **Benson K** **SAC ONLINE 06/17-08/11**  
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**Low Cost or Free Textbooks**

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 **ZTC**

**Honors Courses:**

 **HONORS**

**FDM 299, COOPERATIVE WORK EXPERIENCE EDUCATION**

**1.0 - 6.0 UNITS**

This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student’s college major. Credit may be accrued at the rate of one to six units per semester. One unit of course credit equals 75 hours of paid work or 60 hours of unpaid work. Student repetition up to 16 units is permissible per Title 5, Section 55253.

*Recommended Preparation: 12 units of Fashion Design Merchandising courses completed with C or better.*

Open Entry / Open Exit

**40766 Nance D SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. 450 hours arranged per semester. This work experience course of supervised employment is designed to assist students to acquire career awareness, work habits, attitudes and skills related to the student’s college major. Credit may be accrued at the rate of one to six units per semester. One unit of course credit equals 75 hours of paid work or 60 hours of unpaid work. Student repetition up to 16 units is permissible per Title 5, Section 55253. Recommended Preparation: 12 units of Fashion Design Merchandising courses completed with C or better.

**FIRE OFFICER TRAINING (FOT)**

**FOT 130A, FIRE INSPECTOR 1A: DUTIES AND ADMINISTRATION**

**1.5 UNITS**

This course provides students with a basic knowledge of the roles and responsibilities of a Fire Inspector I, including legal responsibilities and authority, codes and standards, the inspection process, confidentiality and privacy requirements, and ethical conduct, and administrative tasks including preparing inspection reports, recognizing the need for a permit or plan review, investigating common complaints, and participating in legal proceedings. CFSTES Certificate of Completion. Materials fee required.

*Prerequisite: Fire Technology 104, Fire Technology 105, and Fire Technology 106 with a minimum grade of C OR equivalent as determined by the Dean of academy instruction. To be successful in this course, students should be able to understand and use professional terminology; Identify laws, codes, ordinances, and regulations as they relate to fire prevention; Understand code enforcement as it impacts life and pro*

**42060 Freeman S SAC ONLINE 06/17-06/30**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FOT 130B, FIRE INSPECTOR 1B: INTRODUCTION TO FIRE AND LIFE SAFETY**

**1.5 UNITS**

This course will provide fire prevention professionals with the base level of knowledge necessary to inspect fire protection systems and special hazards.

*Prerequisite: Fire Technology 104, Fire Technology 105, and Fire Technology 106 with a minimum grade of C OR equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Describe the basic elements of a public water supply system as it relates to fire protection; Describe the basic elements of a public water supply system including sources, distribution*

**Material Fee(s): \$80.00**

**42061 Freeman S SAC ONLINE 07/01-07/14**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FOT 130C, FIRE INSPECTOR 1C: FIELD INSPECTION**

**1.5 UNITS**

This course provides students with a basic knowledge of field inspection roles and responsibilities of a Fire Inspector I including basic plan review, emergency access for an existing system, hazardous materials, and the operational readiness of fixed fire suppression systems, existing fire detection and alarm systems, and portable fire extinguishers. Designed for the entry level fire inspector. Meets partial requirements for CFSTES Fire Inspector Certification. Materials fee required. Not offered every semester.

*Prerequisite: Fire Technology 104, Fire Technology 105, and Fire Technology 106 with a minimum grade of C OR equivalent as determined by the Dean of academy instruction. To be successful in this course students must be able to: Identify and describe various types and uses of fire protection systems; Identify the different types and components of sprinkler, standpipe and foam systems; Identify the different type*

**Material Fee(s): \$80.00**

**42062 Freeman S SAC ONLINE 07/15-08/25**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

**OL FULLY ONLINE LIVE:** Fully Online Live Instruction - Live streaming instruction via Zoom

**H HYBRID:** On-Campus Hybrid Instruction – A combination of on-campus meetings and online instruction

**VH VIRTUAL HYBRID:** Virtual Hybrid Instruction – A combination of live streaming Zoom meetings and online instruction

**CV ON CAMPUS W/VIRTUAL:** On-Campus with Virtual Instruction – A combination of on-campus and live streaming Zoom meetings

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**FOT 130D, FIRE INSPECTOR 1D: FIELD INSPECTOR**

**1.0 UNIT**

This course provides students with a basic knowledge of a Fire Inspector's field inspection roles and responsibilities specific to California including tents, canopies, and temporary membrane structures; fireworks and explosives; and wildland urban interface environments. Students receive a Certificate of Completion from the Office of the State Fire Marshal. Not offered every semester. Materials fee required.

*Prerequisite: Fire Technology 104, Fire Technology 105, and Fire Technology 106 with a minimum grade of C.*

**Material Fee(s): \$80.00**

**42063**

**Freeman S**

**SAC ONLINE 07/29-08/04**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FIRE TECHNOLOGY (FTC)**

**FTC 101, FIRE PROTECTION ORGANIZATION**

**3.0 UNITS**

This course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

**H 42048**

**Staff**

**SAC HYBRID 06/17-07/28**

**8:30a-11:30a**

**Tu**

**Staff**

**SAC A-128**

On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

**42051**

**Conroy D**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 102, FIRE BEHAVIOR AND COMBUSTION**

**3.0 UNITS**

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled.

**42052**

**Lunde T**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**42053**

**Busch M**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 103, PRINCIPLES OF FIRE AND EMERGENCY SERVICES SAFETY AND SURVIVAL**

**3.0 UNITS**

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

**42054**

**Mead F**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 104, FIRE PREVENTION**

**3.0 UNITS**

This course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; community risk reduction; organization and operation of a fire prevention bureau; use and application of codes and standards; plan review; fire inspections; fire and life safety education; and fire investigation.

*FTC 101 and FTC 102: Fire Technology 101 and 102 with minimum grade of C.*

**42055**

**Muir J**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 105, BUILDING CONSTRUCTION FOR FIRE PROTECTION**

**3.0 UNITS**

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

*FTC 101 and FTC 102: Fire Technology 101 and 102 with minimum grade of C.*

**42056**

**Busch M**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**FTC 106, FIRE PROTECTION SYSTEMS**

**3.0 UNITS**

This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

*Prerequisite: Fire Technology 101 and 102 with minimum grade of C.*

**42057** Horner S **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 121, PHYSICAL FITNESS FOR PUBLIC SAFETY PERSONNEL**

**3.0 UNITS**

This lecture class provides information on exercise physiology and nutrition as it relates to public safety personnel. Topics include the components of a fitness program such as metabolic fitness, muscular fitness, body composition and flexibility. Other topics include the FITT principle, specificity, and injury prevention and treatment.

*Co-Requisite: Concurrent enrollment in Fire Technology 121L.*

**42058** Leafblad R **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**FTC 121L, PHYSICAL FITNESS FOR PUBLIC SAFETY PERSONNEL - PERFORMANCE AND ASSESSMENT 0.3 UNIT**

Student will participate in physical fitness and fire-specific activities. Focus is on preparing individual fitness, health, and physical ability for job requirements. Students will be advised of the specific dates and times for the Lab/Physical Ability Practice sessions during first week of the semester at the lab orientation.

*Co-Requisite: Concurrent enrollment in Fire Technology 121.*

**42059** Leafblad R **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**GEOGRAPHY AND THE ENVIRONMENT (GEOG)**

**GEOG 100, WORLD REGIONAL GEOGRAPHY**

**3.0 UNITS**

The study of major world political and natural regions. Course study includes location of the regions on earth, the physical and cultural elements that lend the regions their identities, and ways in which these elements relate to the regions' inhabitants and economies.

**41863** Conley J **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**GEOG 101, INTRODUCTION TO THE NATURAL ENVIRONMENT**

**3.0 UNITS**

Introduction to the physical elements of geography: maps, earth/sun relationships, meteorology and climatology, natural vegetation, soils, and geomorphology.

**41864** Courter W **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**41868** Courter W **SAC ONLINE 07/15-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**GEOG 101L, INTRODUCTION TO THE NATURAL ENVIRONMENT LABORATORY**

**1.0 UNIT**

Laboratory exercises and experiments designed to explore and understand the primary areas of physical geography. Exercises and applications related to map scales and projections, stereoscopic, topographic and aerial photo interpretation, meteorological tools and models and weather prognostication, geomorphologic models and processes, and landform interpretation.

*Corequisite: Concurrent enrollment in Geography 101.*

**41865** Courter W **SAC ONLINE 06/17-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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Low Cost or Free Textbooks

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**



## HISTORY (HIST)

**HIST 101, WORLD CIVILIZATIONS TO THE 16TH CENTURY 3.0 UNITS**

Examines the development of world civilizations and their interrelationships from the earliest beginnings to the sixteenth century. Emphasis on basic ideas, institutions, personalities, religious traditions, and artistic achievements.

	<b>41909</b>	<b>9:00a-12:35p</b>	<b>M W</b>	<b>Deluna D</b>	<b>SAC D-305</b>	<b>06/17-08/11</b>
	<b>41911</b>			<b>Hacholski M</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**HIST 102, WORLD CIVILIZATIONS SINCE THE 16TH CENTURY 3.0 UNITS**

Broad historical study of world civilizations and their interrelationships from the 16th century to the present. Ideas, institutions, personalities, and artistic achievements which have contributed to present day society.

	<b>42004</b>			<b>Hunt R</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**HIST 120, THE UNITED STATES TO 1877 3.0 UNITS**

Examines major political, economic, intellectual, and social forces at home and abroad that shaped American life from the colonial period through Reconstruction.


<b>42006</b>	<b>6:00p-9:20p</b>	<b>M W</b>	<b>Moore S</b>	<b>SAC D-103</b>	<b>06/17-08/11</b>
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	<b>42007</b>			<b>Lewis J</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**HIST 121, THE UNITED STATES SINCE 1865 3.0 UNITS**

A critical analysis of American history. Includes industrial and technological development, the changing nature of society, cultural developments, domestic politics, and America's expanded world role.

	<b>41910</b>	<b>9:00a-12:35p</b>	<b>Tu Th</b>	<b>Deluna D</b>	<b>SAC D-305</b>	<b>06/17-08/11</b>
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	<b>42009</b>			<b>Stanfield A</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**HIST 124, MEXICAN AMERICAN HISTORY IN THE UNITED STATES 3.0 UNITS**

Survey of Mexican American history in the U.S. from the Pre-Columbian period to the present. Emphasis on Mexican American contributions to the political, social, economic, and cultural development of the U.S. Will also examine the relationship of Mexican Americans to other cultural groups.

	<b>42013</b>			<b>Ramirez A</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

	<b>42015</b>			<b>Ramirez A</b>	<b>SAC ONLINE</b>	<b>06/17-07/14</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**HIST 127, WOMEN IN U.S. HISTORY 3.0 UNITS**

Women of European, African, Native, Hispanic, and Asian backgrounds examined in U.S. 1607-present. Emphasis on individuation, social status, family, reproduction, child care, slavery, jobs, and political activism. Legal impact and theories of patriarchal oppression raised.


	<b>42019</b>			<b>Stanfield A</b>	<b>SAC ONLINE</b>	<b>06/17-08/11</b>
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Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**HIST 153, HISTORY OF MEXICO 3.0 UNITS**

Mexican history from the pre-Columbian period to the present. Includes social, political, economic, and cultural growth of the Mexican nation. Emphasis on cultural and political development.


	<b>42010</b>	<b>9:00a-12:35p</b>	<b>M Tu W Th</b>	<b>Veyna A</b>	<b>SAC D-209</b>	<b>06/12-07/14</b>
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 **ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**INFO 100, LIBRARY RESEARCH FUNDAMENTALS**

**1.0 UNIT**

This course is designed to teach students basic college-level research skills for effective use of traditional and electronic library resources. Instruction includes print and non-print information sources such as reference books, scholarly material, online subscription databases, and the Internet.

 **41960**

**Staff**

**SAC ONLINE 06/17-08/11**

This section does not require a textbook Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**JOURNALISM AND MEDIA STUDIES (JAMS)**

**JAMS 103, INTRODUCTION TO VISUAL COMMUNICATIONS**

**3.0 UNITS**

This multimedia course explores the social, cultural and historical implications of visual communications from Gutenberg's printing press to present day digital media. Using works of philosophical, historical and cultural importance students will analyze and debate the changes in the way visual communications affect society, and shape cultural values.

 **41571**

**Wardsworth R**

**SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**JAMS 105, MASS MEDIA AND SOCIETY**

**3.0 UNITS**

Exploration of mass communication and the interrelationships of media with society including history, structure and trends in a digital age. Examines major media forms, theories and effects in our information-conscious culture.

 **41572**

**Little C**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**LAW (LAW)**

**LAW 100, LAW AND SOCIETY**

**3.0 UNITS**

Overview of the legal system including the courts, participants and various sources of law in the American legal system. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Examination of legal ethics. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. Same as PARA 100

 **40926**

**Robinson K**

**SAC ONLINE 06/17-08/11**



Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

 **40928**

**Sauber D**

**SAC ONLINE 06/17-08/11**



Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**LAW 105, THE LEGAL ENVIRONMENT OF BUSINESS**

**3.0 UNITS**

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations.

 **40914**

**6:00p-9:20p**

**M W**

**Keller P**

**SAC A-130**

**06/17-08/11**

This class meets on-campus. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.

 **40898**


**Robinson K**

**SAC ONLINE 06/17-08/11**




Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.

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**Low Cost or Free Textbooks**



 **OER**



 **ZTC**



**Honors Courses:**

 **HONORS**



 **40902** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.

 **40908** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.


 **40921** **Smith K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.

 **40924** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class. LAW 105 is the same as BUS 105 - students can receive credit for only one class BUS 105 OR LAW 105.

**LAW 121, LEGAL ETHICAL REASONING** **3.0 UNITS**  
 This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general.



 **40930** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.


**LAW 299, COOPERATIVE WORK EXPERIENCE EDUCATION - OCCUPATIONAL** **1.0 - 4.0 UNITS**  
 This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, section 55253.  
 Open Entry / Open Exit


 **40932** **Valdovinos Alvarez I** **SAC ONLINE 06/17-08/11**  
 Mandatory orientation meeting with the instructor. Instructor will contact the student to arrange a virtual meeting during the first week of class.


## MANAGEMENT (MGMT)

**MGMT 120, PRINCIPLES OF MANAGEMENT** **3.0 UNITS**  
 Principles, methods, and procedures essential to the successful management of human and financial resources. Planning, decision making, staffing, directing, motivating, leading, communicating, controlling, and the application of managerial skills.


 **40878** **Carr B** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is a \$30 material fee with no additional textbook cost.

 **ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

## MANUFACTURING TECHNOLOGY (MNFG)

**MNFG 103, SOLIDWORKS BEGINNING SOLID MODELING 3.0 UNITS**


Introductory course in parametric solid modeling using Solidworks, an industry standard engineering design software (CAD). This course will include a solid modeling overview, solid model construction techniques (extrude, revolve, fillet, chamfer, etc.), including the preparation of individual solid components and basic solid model assemblies.

 **40853** **Buechler M** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**MNFG 111, BASIC MECHANICAL BLUEPRINT READING 2.0 UNITS**

Reading and interpreting blueprints for manufacturing technologies. (Same as Engineering 111).

 **40854** **Buechler M** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**MNFG 114, GEOMETRIC DIMENSIONING AND TOLERANCING 3.0 UNITS**


Drawing interpretation utilizing geometric dimensioning and tolerancing per ASME Y14.5M (formerly ANSI Y14.5M) as applied in engineering, manufacturing, and inspection. Suggested preparation: prior course or experience in drafting with conventional dimensioning and tolerancing.

 **40855** **Corley G** **SAC ONLINE 06/17-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**MNFG 173, MASTERCAM - 2D GEOMETRY, 2D TOOLPATHS 3.0 UNITS**

Computer assisted numerical control programming of machine tools using Mastercam software. Creation of 2D-part geometry. 2D-part programming including contouring, pocketing, drilling, and tapping.


 **40856** **5:00p-8:20p** **Tu Th** **Singh N** **SAC ZOOM 06/17-08/11**

Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**MNFG 178, MASTERCAM LATHE 3.0 UNITS**

Computer assisted numerical control programming of machine tools using MASTERCAM lathe software. Emphasis placed on lathe toolpaths: facing, turning, grooving, boring, and threading.

*Prerequisite: Manufacturing Technology 171 and Manufacturing Technology 173 with a minimum grade of C.*

 **40857** **5:00p-8:20p** **M W** **Singh N** **SAC ZOOM 06/17-08/11**

Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.


## MATHEMATICS (MATH)

**MATH 105, MATHEMATICS FOR LIBERAL ARTS STUDENTS 4.0 UNITS**


An overview of mathematics for the liberal arts student. Topics will include problem solving, financial management, probability, statistics, and selected other topics such as set of theory, geometry, logic, mathematical modeling, and the history of mathematics.


*Prerequisite: Mathematics 083 or Mathematics 084 with a minimum grade of C or equivalent skills as measured by placement into Mathematics 105 according to the Santa Ana College Mathematics Department's placement standards.*


 **41379** **Vu D** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41380** **Solheid C** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**



 **HONORS**



**MATH 140, COLLEGE ALGEBRA**



**4.0 UNITS**

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationals, exponentials, and logarithms with applications and graphing; sequences and series.

*Prerequisite: Mathematics 084 with a minimum grade of C or equivalent skills as measured by placement into Mathematics 140 according to the Santa Ana College Math Department's placement standards.*

 **41384** **Lechuga J** **SAC HYBRID 06/17-07/28**  
 Fully Online Instruction with in-person exams. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class will require in-person exams TBA. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41385** **Nguyen K** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.



 **41386** **Bradley K** **SAC ONLINE 06/17-07/28**  
 Online Degree Pathway. Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


**MATH 140S, COLLEGE ALGEBRA WITH SUPPORT**

**4.5 UNITS**

Survey of advanced topics in algebra: equations, inequalities and functions involving polynomials, rationals, exponentials, and logarithms with applications and graphing; sequences and series. Course includes just-in-time review of topics from arithmetic, Elementary Algebra, Intermediate Algebra, and/or other topics as necessary. Intended for students who did not directly place into Math 140 or for students who would like to supplement their learning with prerequisite skills needed for College Algebra.

*MATH 084: Mathematics 084 with a minimum grade of C or equivalent skills as measured by placement into Math 140S according to the Santa Ana College Math Department's placement standards.*

	<b>41381</b>	<b>8:00a-11:05a</b>	<b>M Tu W Th</b>	<b>Staff</b>	<b>SAC H-105</b>	<b>06/17-07/25</b>
		<b>11:15a-12:35p</b>	<b>M Tu W Th</b>	<b>Staff</b>	<b>SAC H-105</b>	
	<b>41383</b>	<b>5:00p-8:05p</b>	<b>M Tu W Th</b>	<b>Mishal A</b>	<b>SAC ZOOM</b>	<b>06/17-07/25</b>
		<b>8:15p-9:35p</b>	<b>M Tu W Th</b>	<b>Mishal A</b>	<b>SAC ZOOM</b>	


 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**MATH 150, CALCULUS FOR BIOLOGICAL, MANAGEMENT AND SOCIAL SCIENCES**

**5.0 UNITS**

Single and multi-variable calculus including limits, derivatives, integrals, exponentials, and logarithmic functions and partial derivatives. Applications are drawn from biology, social science, and business.

*Prerequisite: Mathematics 140 or Mathematics 145 with a minimum grade of C; or placement into Math 150 according to the Santa Ana College Math Department's placement standards.*

 **41387** **6:00p-9:50p** **M Tu W Th** **Staff** **SAC ZOOM 06/17-07/25**  
 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.


**MATH 162, TRIGONOMETRY**

**4.0 UNITS**

Angles and their measurement, trigonometry functions and their applications, including vector problems. Use of trigonometric identities. Graphing the basic functions and variations, solving trigonometric equations. Graphing using polar coordinates, and use of complex numbers.

*Prerequisite: Mathematics 140 with a minimum grade of C or equivalent skills as measured by placement into Math 162 according to the Santa Ana College Math Department's placement standards.*


 **41388** **8:00a-11:05a** **M Tu W Th** **Staff** **SAC H-104 06/17-07/25**

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

 **41389** **Hager B** **SAC HYBRID 06/17-07/28**  
 Fully Online Instruction with in-person exams. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class will require in-person exams TBA. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


**MATH 180, SINGLE VARIABLE CALCULUS I** **4.0 UNITS**

Limits and continuity, derivatives and integrals of algebraic, trigonometric, and other transcendental functions. Applications including extrema tests, related rates, and areas.


*MATH 140S or MATH 140 and MATH 162: Mathematics 140 or Mathematics 140S and Mathematics 162 with a minimum grade of C or equivalent skills as measured by placement into Math 180 according to the Santa Ana College Math Department's placement standards.*

 **41390** **8:00a-11:05a** **M Tu W Th** **Staff** **SAC I-203 06/17-07/25**


 **41391** **Everett M** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


 **41392** **Romero M** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


 **41393** **Ro K** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41394** **Vu D** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41395** **Romero M** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


**MATH 185, SINGLE VARIABLE CALCULUS II** **4.0 UNITS**

Applications of integrals, including volumes, work, arc length, and surface area. Integration techniques, differential equations, conics, parametric equations, polar coordinates, improper integrals, sequences, and infinite series.


*Prerequisite: Mathematics 180 or Mathematics 180H with a minimum grade of C.*


 **41396** **8:00a-11:05a** **M Tu W Th** **Staff** **SAC I-204 06/17-07/25**

 **41397** **Sweeney G** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41398** **Lui R** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

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**Low Cost or Free Textbooks**



 **OER**



 **ZTC**

**Honors Courses:**

 **HONORS**

 **41399** **Everett M** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41400** **Ro K** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41401** **Lui R** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**MATH 204, MATHEMATICAL CONCEPTS FOR ELEMENTARY SCHOOL TEACHERS 4.0 UNITS**

Designed for prospective elementary teachers, the course emphasizes problem solving techniques and mathematical structure associated with numeration, set theory, elementary number theory, real number system, ratio, proportion, and percent. The course includes instructional delivery design and activity-based explorations.

*Prerequisite: Math 083 or MATH 084 with a minimum grade of C or equivalent skills as measured by placement into Math 204 according to the Santa Ana College Math Department's placement standards.*


 **41402** **8:00a-11:05a** **M Tu W Th** **Staff** **SAC H-109 06/17-07/25**

**MATH 219, STATISTICS AND PROBABILITY 4.0 UNITS**


Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology.


*Prerequisite: Mathematics 083 or Mathematics 084 with a minimum grade of C or equivalent skills as measured by placement into Mathematics 219 according to the Santa Ana College Math Department's placement standards.*


 **41404** **6:00p-9:05p** **M Tu W Th** **Lui R** **SAC ZOOM 06/17-07/25**


 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


 **41405** **Bradley K** **SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


 **41406** **Leeds K** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41407** **Tolentino J** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

 **41408** **Smith S** **SAC ONLINE 06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

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**Low Cost or Free Textbooks**

 **OER**




 **ZTC**

**Honors Courses:**




 **HONORS**




 **41409** **Corp R** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed  
 information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

**MATH 219S, STATISTICS AND PROBABILITY WITH SUPPORT** **4.5 UNITS**  
 Beginning course in statistics. Includes descriptive statistics, graphical displays of data, probability, confidence intervals, hypothesis testing, regression, contingency tables, ANOVA, and non-parametric statistics. Includes use of technology. Integrated review includes concepts from arithmetic, pre-algebra, elementary and intermediate algebra, and critical thinking skills from descriptive statistics that are needed to understand the basics of college-level statistics. Intended for students who did not directly place into Math 219 or for students that would like to supplement their learning with prerequisite skills needed for Statistics.  
*MATH 083 or MATH 084: Mathematics 083 or Mathematics 084 with a minimum grade of C or equivalent skills as measured by placement into Math 219S according to the Santa Ana College Math Department's placement standards*

 **41403** **8:00a-11:05a M Tu W Th** **Mishal A** **SAC H-107 06/17-07/25**  
 **11:15a-12:35p M Tu W Th** **Mishal A** **SAC H-107**  
 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.



**MATH 280, INTERMEDIATE CALCULUS** **4.0 UNITS**  
 Vectors and three-dimensional space, functions of several variables, partial derivatives, and multiple integrals. Vector calculus, Green's Theorem, Stoke's Theorem, and the Divergence Theorem.  
*Prerequisite: Mathematics 185 with a minimum grade of C.*

 **42099** **Smith S** **SAC ONLINE 06/17-07/28**  
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 information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.


 **42100** **Smith S** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed  
 information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There are no additional textbook costs for this ZTC class.

## MEDICAL ASSISTANT (MA)


**MA 020, BLOODBORNE AND AIRBORNE PATHOGEN STANDARDS** **0.5 UNIT**  
 Presentation of California Occupational Safety and Health Act (Cal-OSHA) Bloodborne and Airborne Pathogen Standards for occupational at-risk exposure to Hepatitis B Virus, Hepatitis C Virus, HIV-AIDS, and Tuberculosis including compliance requirements, exposure control measures, exposure determination, engineering controls, work practice controls, personal protective equipment, universal precautions and post exposure practices.

 **41565** **8:00a-12:30p Sa** **Emley C** **SAC ZOOM 06/17-07/14**  
 Fully Online Live Instruction. Live streaming instruction via zoom 6/29/24 and 7/6/24 from 08:00am-12:30pm. There is no additional textbook cost for this ZTC class.


**MA 030, PHLEBOTOMY** **1.0 UNIT**  
 This phlebotomy course is designed for health care workers and provides a comprehensive introduction to the practice of phlebotomy, with focus on safety procedures, equipment and point-of-care testing.

 **41568** **9:00a-3:00p F Sa** **Emley C** **SAC HYBRID 06/17-07/14**  
**SAC HS-210**


On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. On campus lab 7/12/24 or 7/13/24. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**



**MA 051A, BEGINNING MEDICAL TERMINOLOGY**

**3.0 UNITS**

Introduction to medical terms including structural analysis of prefixes, combining form/roots, and suffixes. Emphasis on terms related to anatomy, physiology, diagnostic tests and pathology of the digestive, renal-urinary, and reproductive systems. Also, terms related to pregnancy and the newborn.

**○ 41569** **Valencia B** **SAC ONLINE 06/17-07/14**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**○ 41570** **Bass S** **SAC ONLINE 06/17-07/14**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**○ 41612** **Gonzalez E** **SAC ONLINE 07/15-08/11**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**○ 41613** **Bass S** **SAC ONLINE 07/15-08/11**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**MA 051B, ADVANCED MEDICAL TERMINOLOGY**

**3.0 UNITS**

Continuation of MA 051A. Includes medical terms related to anatomy, physiology, diagnostic tests and pathology of the nervous, cardiovascular, respiratory, circulatory, musculoskeletal, skin, sensory, and the endocrine systems. *MA 051A: Medical Assistant 051A with a minimum grade of C.*

**○ 41614** **Emley C** **SAC ONLINE 06/17-07/14**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**○ 45804** **Emley C** **SAC ONLINE 06/17-07/14**  
Fully online instruction. Students are required to log in to Canvas on first day of class, complete attendance activity and read Course Overview for directions for required course work. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings.

**MA 053, MEDICAL ASSISTANT - ADMINISTRATIVE FRONT OFFICE**

**3.0 UNITS**

Medical front office training including the role, responsibilities, professionalism, medical ethics and laws, medical records, filing, billing and collection, banking, bookkeeping, reception, telephone techniques, oral and written communication, resume, and job seeking skills. Also includes a unit on first aid and life threatening illnesses.

**VH 41615** **Luke B** **SAC ONLINE 06/17-08/11**  
**10:05a-1:15p M** **Staff** **SAC ZOOM**  
Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom (Mondays 10:05 AM to 1:15 PM) indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**MA 054, MEDICAL INSURANCE BILLING AND CODING**

**3.0 UNITS**

Medical Insurance Billing and Coding includes guidelines, regulations, completion of insurance claims, and program information for Medicare, Medicaid/MediCal, TRICARE, Medi/Medi, State Disability, Workers Compensation, and private commercial insurance. Instruction includes legal and ethical guidelines, and instruction in procedural coding, CPT, HCPCS, and diagnostic coding, ICD-10.

*MA 051A: Medical Assistant 051A with a minimum grade of C.*

**OL 41616** **10:05a-1:15p W** **Luke B** **SAC ZOOM 06/17-08/11**  
Fully Online Live Instruction. Live streaming instruction via Zoom (Wednesdays from 10:05 AM to 1:15 PM). Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus.

**○ ONLINE:** Fully Online Instruction - Time-flexible online course with no scheduled meeting times

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**VH VIRTUAL HYBRID:** Virtual Hybrid Instruction – A combination of live streaming Zoom meetings and online instruction

**CV ON CAMPUS W/VIRTUAL:** On-Campus with Virtual Instruction – A combination of on-campus and live streaming Zoom meetings

**C ON-CAMPUS:** On-Campus Instruction – On-campus and in-person with scheduled meeting days and times.

Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

**MA 056, COMPUTER APPLICATIONS FOR THE MEDICAL OFFICE**

**3.0 UNITS**

This course is an introduction to computer applications for a medical office setting, including Practice Management with patient registration, scheduling, verifying insurance eligibility, posting charges and payments, computerized billing, and preparing insurance claims. The course also includes documenting components of clinical back-office encounters, ordering procedures and referrals, and preparing lab requisitions and prescriptions in an Electronic Medical Record.

MA 051A and MA 053: Medical Assistant 051A and Medical Assistant 053 with a minimum grade of C.

**VH 41620**

**4:35p-7:45p**

**Tu**

**Seitz C**

**Seitz C**

**SAC ONLINE 06/17-07/14**

**SAC ZOOM**

Virtual hybrid instruction. A combination of some live streaming instruction via zoom during the days and times indicated and online instruction. Students log in to canvas [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. There is a live streaming session on 6/18/24 from 4:35PM - 7:45PM.

**MUSIC (MUS)**

**MUS 101, MUSIC APPRECIATION**


**3.0 UNITS**

Designed to increase awareness and appreciation of music from the European classical tradition in relation to general culture and history. Develops basic understanding of musical elements and deepens student's experience of music. Recommended for non-music majors.

**O 26243**

**Jan J**


**SAC ONLINE 07/15-08/11**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**O 26244**

**Lee S**

**SAC ONLINE 06/17-07/14**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**MUS 103, JAZZ IN AMERICA**


**3.0 UNITS**

A historical survey of the development and evolution of jazz in America from its earliest roots in African and European music. The study will also include the social and economic conditions which influenced this art form.

**O 26246**

**Kehlenbach E**


**SAC ONLINE 06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**O 26247**

**Hizon V**

**SAC ONLINE 06/24-07/21**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

**MUS 104, ROCK MUSIC HISTORY AND APPRECIATION**

**3.0 UNITS**

Historical survey of rock music from its beginnings in the 50's to the present. Major rock and pop styles will be discussed. Personalities and musical styles will be related to the social, political, and cultural context of the time.

**O 26248**

**Marr J**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 30865**

**Pacier P**

**SAC ONLINE 06/17-08/11**


Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 32243**

**Pacier P**

**SAC ONLINE 06/17-08/11**


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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**MUS 145, JAZZ IMPROVISATION AND PERFORMANCE WORKSHOP**

**1.0 UNIT**

Performance and analysis of jazz standards and popular pieces in a practical workshop setting. Elements of improvisation and ensemble playing are stressed. Assumes a rudimentary understanding of chords and scales. Open to all instrumentalists and vocalists.

**C 41621**      **5:00p-6:20p**      **M W**      **Hizon V**      **SAC N-114**      **06/17-07/28**  
                          **6:30p-7:50p**      **M W**      **Hizon V**      **SAC N-114**

**MUS 161, CLASS PIANO I**

**1.0 UNIT**

Group instruction for beginners emphasizing note reading, basic keyboard skills, chord patterns and sight reading. Practice outside of class required. Practice pianos available on campus. Required for music majors whose principal instrument is not piano.

**O 26250**      **Kim J**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**NUTRITION AND FOOD (NUTR)**

**NUTR 110, FOOD SAFETY AND SANITATION**

**2.0 UNITS**

Sanitation practices affecting individual operations. Prevention and control of foodborne illnesses through flow of food and HACCP management. Also includes study of worker safety.

**O 43172**      **Christensen J**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**NUTR 115, NUTRITION**

**3.0 UNITS**

Scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with an emphasis on individual needs.

**O 41300**      **Mathot S**      **SAC ONLINE**      **06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Online Degree Pathway course, CommStudies AA-T. Registration is open for all students.

**O 41302**      **Mathot S**      **SAC ONLINE**      **07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**O 41303**      **Mathot S**      **SAC ONLINE**      **07/15-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**OCCUPATIONAL STUDIES (OS)**

**OS 403, LEADERSHIP FOR THE OCCUPATIONAL THERAPY ASSISTANT (OTA)**

**2.0 UNITS**

This course will focus on leadership and the types of leadership that relate to the work of the OTA. Topics will include leadership, advocacy, promotion, supervision, fieldwork, ethical considerations, and participation in professional organizations.

**O 40851**      **Wang W**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:



 HONORS



## PARALEGAL (PARA)

### PARA 100, LAW AND SOCIETY

**3.0 UNITS**

Overview of the legal system including the courts, participants and various sources of law in the American legal system and how society is affected. Review of the legal and judicial process in the United States covering the adversarial system, jurisdiction of federal and state courts, and the general process of judicial review and how different segments of society are affected. Explanation of different sources of law including statutes, court cases and administrative agency rules. Review of basic legal reasoning and introductory legal research methods. Introduction to substantive areas of law and the effect the law has in various groups and individuals in our system. Review of the role and regulation of legal professionals, legal ethics and consumer protection laws, and their effect on providing legal services to various segments of society.


 **40927** **Robinson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

 **40929** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

### PARA 101, LAW OFFICE MANAGEMENT

**2.0 UNITS**


Structure and procedures of the law office. Emphasis on time management, the role of paralegals and paralegal administrators in the law office, ethics in the law office, client property regulations, time keeping and billing, and technology management in a law office.

 **40933** **Williamson K** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### PARA 105, COOPERATIVE WORK EXPERIENCE EDUCATION - OCCUPATIONAL

**1.0 - 4.0 UNITS**




This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, section 55253.

 **40934** **Valdovinos Alvarez I** **SAC ONLINE 06/17-08/11**  
 Mandatory orientation meeting with the instructor. Instructor will contact the student to arrange a virtual meeting during the first week of class.

### PARA 120, COMPUTERS IN THE LAW OFFICE

**4.0 UNITS**



Exploration of technology utilized in a legal service office environment. Study of legal focused software and applications.


 **40935** **Smith K** **SAC ONLINE 06/17-08/11**  
 **6:00p-8:00p** **Th** **Staff** **SAC ZOOM**  
 Virtual Hybrid Instruction. A combination of some live streaming instruction via Zoom during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.


### PARA 121, LEGAL ETHICAL REASONING


**3.0 UNITS**

This course provides an introduction to concepts and theories of ethical decision-making, moral conduct, obligation and permission, justice, responsibility, as applied to the Legal Profession. The course will explore the application of the California Rules of Professional Conduct as applied to the legal profession and society in general.


 **40931** **Sauber D** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**PARA 299, COOPERATIVE WORK EXPERIENCE EDUCATION**

**1.0 - 4.0 UNITS**

This work experience course of supervised employment is designed to assist students to acquire desirable work habits, attitudes and skills in a field related to the students' major so as to enable them to become productive employees. This course also provides students with career awareness for jobs. 75 hours of paid work or 60 hours of un-paid work equals one unit of course credit. Student repetition is allowed per Title 5, section 55253.

**40936**

**Valdovinos Alvarez I**

**SAC ONLINE**

**06/17-08/11**

Mandatory orientation meeting with the instructor. Instructor will contact the student to arrange a virtual meeting during the first week of class.

**PHARMACY TECHNOLOGY (PHAR)**

**PHAR 072A, PHARMACY TECHNOLOGY EXTERNSHIP OUTPATIENT**

**0.5 - 2.0 UNITS**

On-site training in the outpatient (retail) practice setting. Students must complete PHAR 056 lab class to qualify for the outpatient rotation. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of the outpatient rotation PHAR 072A is required for the Basic Certificate. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree.

*Prerequisite: Pharmacy Technology 056 with a minimum grade of C, and background checks, health screenings, current TB clearance, and drugs test clearance.*

Open Entry / Open Exit

**43174**

**Trivedi M**

**SAC ONLINE 06/17-08/11**

**PHAR 072B, PHARMACY TECHNOLOGY EXTERNSHIP INPATIENT**

**0.5 - 1.5 UNITS**

On-site training in the inpatient (hospital) practice setting. Students must complete the following lab courses prior to placement: PHAR 057 and PHAR 056. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations (320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments.

*Prerequisite: Pharmacy Technology 056 and Pharmacy Technology 057 with a minimum grade of C, and background checks, health screenings, current TB clearance, and drugs test clearance.*

Open Entry / Open Exit

**43175**

**Trivedi M**

**SAC ONLINE 06/17-08/11**

**PHAR 072C, PHARMACY TECHNOLOGY EXTERNSHIP STERILE PRODUCTS**

**0.5 - 1.5 UNITS**

On-site training in the home infusion or sterile products pharmacy practice setting. Students must complete the following lab course prior to placement: PHAR 060. Students must pass the trade-generic test prior to placement. Some sites require additional background, health screenings, and drugs tests. Completion of PHAR 072A, PHAR 072B, PHAR 072C rotations(320 hours) is required for the advanced certificate and Associate Degree. At the end of the rotation, the instructor will use the attendance records and competency forms as input from preceptors to assess the student learning outcomes and to help determine final grades. Students can refer to the course overview to understand the details of final grade assignments.

*Prerequisite: Pharmacy Technology 060 with a minimum grade of C, and background checks, health screenings, current TB clearance and drugs test clearance.*

Open Entry / Open Exit

**43176**

**Trivedi M**

**SAC ONLINE 06/17-08/19**

**PHILOSOPHY (PHIL)**

**PHIL 106, INTRODUCTION TO PHILOSOPHY**

**3.0 UNITS**

A survey of historical and contemporary ideas on how to live the good life.

**41885**

**Brocatto C**

**SAC ONLINE 06/17-07/28**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**41886**

**Watkins J**

**SAC ONLINE 07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**


**Honors Courses:**

 **HONORS**

**PHIL 108, ETHICS**

**3.0 UNITS**

Introduction to key historical and modern theories of philosophical ethics and the application of these theories to ethical issues facing society today. Assists in clarifying our thinking about morality/ethics. Course increases awareness of values in personal and contemporary issues.




-  **41901** **Fish Z** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**PHIL 110, CRITICAL THINKING**

**4.0 UNITS**

College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society.

*Prerequisite: English 101 or English 101H with a minimum grade of C.*


-  **41902** **Brocatto C** **SAC ONLINE 06/17-07/14**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
-  **41903** **Brocatto C** **SAC ONLINE 07/15-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
-  **41905** **Fish Z** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

 **PHIL 110H, HONORS CRITICAL THINKING**

**4.0 UNITS**

An enriched approach designed for honors students in a seminar setting. College-level critical thinking and writing. Promotes self-awareness, independent thinking, and improved academic expression. Examines philosophical methods of reasoning and composition, and the uses of informal logic and criticism in personal life, college, work, and democratic society.


*Prerequisite: English 101/101H with a minimum grade of C and a high school or college GPA of 3.0 or above.*

-  **41906** **Fish Z** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**PHIL 111, INTRODUCTORY LOGIC**

**4.0 UNITS**

Beginning course in formal and applied logic. Covers cognitive language, formal argument, proof, basic propositional and predicate logic, and philosophy of logic. Emphasizes active student involvement and practical application to college life.



-  **41907** **Fish Z** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**PHOTOGRAPHY (PHOT)**

**PHOT 150, HISTORY OF PHOTOGRAPHY**

**3.0 UNITS**

A survey of the history, aesthetics, and technical evolution of photography including an in-depth view of artistic styles and individual photographers' contributions from the 19th century to the present.


-  **26251** **Marquez P** **SAC ONLINE 07/15-08/11**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
-  **26252** **Marquez P** **SAC ONLINE 07/08-08/04**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

**PHOT 180, BEGINNING PHOTOGRAPHY**

**3.0 UNITS**

This course provides a firm foundation in digital photography using manual exposure functions on digital single lens reflex and mirrorless cameras. Professional editing techniques and inkjet printing will be taught according to industry standards.

**Material Fee(s): \$15.00**

-  **41622** **Pulido E** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**PHYSICS (PHYS)**

**PHYS 237, ENGINEERING PHYSICS III**

**4.0 UNITS**

Introduces the basic principles of fluids, thermodynamics, sound, light, optics, and modern physics. This course is designed for students majoring in physical sciences and engineering.

*Prerequisite: Physics 217 and Mathematics 185 with a minimum grade of C.*




-  **41232** **8:30a-10:45a** **M Tu W Th** **Hirano C** **SAC SC-312 06/17-07/25**  
**11:00a-1:15p** **M Tu W Th** **Hirano C** **SAC SC-312**



**POLITICAL SCIENCE (POLT)**


**POLT 101, AMERICAN GOVERNMENT AND POLITICS**



**3.0 UNITS**



Study of United States national government and California state and local governments. Satisfies graduation requirement for American institutions and state requirements for California state government.

-  **42025** **8:00a-11:20a** **Tu Th** **Becker C** **SAC D-106 06/17-08/11**
-  **42008** **6:00p-9:20p** **M W** **Becker C** **SAC D-106 06/17-08/11**
-  **42023** **Murphy T** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

-  **42024** **Andrade P** **SAC ONLINE 06/17-07/28**  
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-  **42026** **Murphy T** **SAC ONLINE 06/17-07/28**  
Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

-  **42027** **Andrade P** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.



-  **42413** **Andrade P** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.


**PSYCHOLOGY (PSYC)**

**PSYC 100, INTRODUCTION TO PSYCHOLOGY**


**3.0 UNITS**

An introduction to the major theories, methods, concepts, ethical issues, and findings in the major fields in psychology including (but not limited to): biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology.


-  **42091** **8:00a-10:10a** **M Tu W Th** **Pedroza J** **SAC D-434 06/17-07/28**  
 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

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**Low Cost or Free Textbooks**


 **OER**

 **ZTC**


**Honors Courses:**


 **HONORS**


 **42098**      **10:30a-12:45p**      **M Tu W Th**      **Pedroza J**      **SAC D-434**      **06/17-07/28**

 Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.


 **42101**      **Ortiz R**      **SAC ONLINE**      **06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) . There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials.

 **42102**      **Ortiz F**      **SAC ONLINE**      **06/17-07/14**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) . There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials.

 **42104**      **Yimenu B**      **SAC ONLINE**      **06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) . There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials.


 **42106**      **Nardi N**      **SAC ONLINE**      **07/15-08/11**

Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) . There will be no instructional meetings.

**PSYC 157, INTRODUCTION TO CHILD PSYCHOLOGY**      **3.0 UNITS**

Survey of human development from conception through adolescence. Covers major theories of development (cognition, perception, language, personality, social, etc.) and their application to parenting, teaching, and other interactions with children. (No credit if student has taken Child Development 107.)


 **42161**      **Ortiz F**      **SAC ONLINE**      **06/17-07/28**

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**PSYC 160, INTRODUCTION TO LIFESPAN PSYCHOLOGY**      **3.0 UNITS**

Introduction to human development from a psychological perspective. Explores human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined from classical and contemporary perspectives. Attention will also be given to both normative and non-normative development.


 **42165**      **Ortiz R**      **SAC ONLINE**      **06/17-07/28**

 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**PSYC 170, MULTICULTURAL PSYCHOLOGY**      **3.0 UNITS**

Introduces students to important issues related to cultural diversity in the field of psychology. Major areas of psychology will be explored from a multicultural perspective, including research, mental health, social psychology, and identity development. Exploration of historically underrepresented populations in the U.S. will be emphasized.

 **42166**      **Ortiz R**      **SAC ONLINE**      **06/17-07/28**


 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

**PSYC 201, INTRODUCTION TO BIOLOGICAL PSYCHOLOGY**      **4.0 UNITS**


Explores relationships between physiological structures of the body and human behavior. Focuses on the organization and function of the brain, spinal cord, peripheral nervous system, glands, sensory and perceptual systems. Relates physiological functioning to motivated behavior, addiction, and psychological disorders.

 **42171**      **Nardi N**      **SAC ONLINE**      **06/17-07/28**


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**Low Cost or Free Textbooks**


 **OER**

 **ZTC**

**Honors Courses:**



 **HONORS**





 **42172** **Nardi N** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**PSYC 210, STATISTICS FOR THE BEHAVIORAL SCIENCES** **4.0 UNITS**  
 Introduces psychology and behavioral science majors to descriptive and inferential statistical methods. Knowledge of these methods is essential to the understanding, interpretation, and performance of scientific research. Topics covered include probability theory, hypothesis testing, correlation, analysis of variance, the graphical representation of data, basic research design, and the use of computer software to perform statistical analyses.


*Prerequisite: Mathematics 083 or Mathematics 084 with a minimum grade of C; OR placement into Psychology 210 on the Mathematics Level 3 placement Exam and a course equivalent to Mathematics 083 or Mathematics 084.*

 **42199** **Castillo R** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.


 **42200** **Ortiz F** **SAC ONLINE 06/17-07/28**  
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**PSYC 219, INTRODUCTION TO RESEARCH METHODS IN PSYCHOLOGY** **3.0 UNITS**  
 Emphasizes methods of study in psychology, experimental design, analysis of variables contributing to experimental results, and data treatment.


*Prerequisite: Mathematics 219 or Psychology 210(may be taken concurrently) and Psychology 100 with a minimum grade of C.*

 **42203** **Yimenu B** **SAC ONLINE 06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

**PSYC 230, PSYCHOLOGY OF ADJUSTMENT** **3.0 UNITS**  
 Introduction to psychoanalytic, behavioristic, cognitive, humanistic and existential theories of personality as they relate to dealing effectively with the changing demands of everyday life. Covers personal growth, self-concept, stress and coping, personal goals and motivation, and interpersonal relationships in relation to culture, gender, ethnicity, historical cohort, and socio-economic status. Includes exercises for increasing self-awareness, identifying personal goals, and for building skills for effective living and well-being.


 **42208** **Castillo R** **SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**PSYC 240, INTRODUCTION TO SOCIAL PSYCHOLOGY** **3.0 UNITS**  
 An exploration of the interlocking dynamics of psychology and sociology focusing on the impact of social groups on individuals and on other groups. Content includes self-development, interaction, attitudes, conformity, friendship, love, aggression, group dynamics (Same as Sociology 240).

 **42211** **Ortiz R** **SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.


**PSYC 250, INTRODUCTION TO ABNORMAL PSYCHOLOGY** **3.0 UNITS**  
 Introduction to the commonly diagnosed psychological disorders. Includes psychophysiological disorders, anxiety, depression, substance abuse, sexual dysfunctions, schizophrenia, developmental, cognitive, and personality disorders. Emphasis is on identification, symptomatology, etiology, and methods of therapeutic intervention.

*Prerequisite: Psychology 100/100H with a minimum grade of C.*


 **42216** **Castillo R** **SAC ONLINE 06/17-07/28**  
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**Low Cost or Free Textbooks**

 **OER**

 **ZTC**

**Honors Courses:**

 **HONORS**

## SOCIOLOGY (SOC)

### SOC 100, INTRODUCTION TO SOCIOLOGY

**3.0 UNITS**

The scientific study of human societies and behavior focusing on the process of social interaction, patterns of social inequality, and the influence of social institutions on individuals as members of social groups. Special emphasis provided to explain factors promoting social stability and social change.

- OL **42045**      **8:00a-11:20a**      **M W**      **Campbell A**      **SAC ZOOM**      **06/17-08/11**  
 Fully Online Live Instruction. Live streaming instruction via Zoom during the days and times indicated. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu). There will be no instruction on-campus. Your instructor has selected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.
- O **42040**      **Campbell A**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has selected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.
- O **42042**      **Torres S**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has selected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.
- O **42043**      **O'Dell R**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.
- O **42046**      **Torres S**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### SOC 112, RELATIONSHIPS, MARRIAGES, AND FAMILY DYNAMICS

**3.0 UNITS**

In-depth examination of the process of developing intimate relationships leading to committed partnerships and marriages with emphasis on effective communication techniques, understanding relationship dynamics, parenting, diverse family systems and overcoming family stressors at each life stage.

- O **42047**      **O'Dell R**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

## SPANISH (SPAN)

### SPAN 101, ELEMENTARY SPANISH I

**5.0 UNITS**

Practice and integration of pronunciation, grammar, vocabulary, common idioms, listening, speaking, reading, and writing techniques for the expression of ideas orally and in writing. Introduction to Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 101 is equivalent to two years of high school Spanish.

- O **42064**      **Galvan J**      **SAC ONLINE**      **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class requires the text "Puntos de partida" with the electronic code for online lab materials.
- O **42065**      **Galvan J**      **SAC ONLINE**      **06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class requires the text "Puntos de partida" with the electronic code for online lab materials.
- O **42066**      **Guerrero-Phlaum M**      **SAC ONLINE**      **06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class requires the text "Puntos de partida" with the electronic code for online lab materials.
- O **42067**      **Aguilar Hernandez G**      **SAC ONLINE**      **06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. Section 42067 has been specifically designed for SPANISH SPEAKERS. This class requires the text "Mundo 21" with the electronic code for online lab materials.

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**Low Cost or Free Textbooks**

**OER**

**ZTC**

**Honors Courses:**

**HONORS**

**42072 Lopez-Jaurequi L SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class requires the text "Puntos de partida" with the electronic code for online lab materials.

**SPAN 102, ELEMENTARY SPANISH II 5.0 UNITS**  
 A college-level Spanish class focusing on further training in language skills providing avenues for the expression of ideas orally and in writing. Additional study of Hispanic culture. Designated sections focus on skills for Spanish speakers. Spanish 102 is equivalent to the third year of high school Spanish.  
*Prerequisite: Spanish 101 or Spanish 101H with a minimum grade of C or two years of high school Spanish with a passing grade. All Cal State and UC universities Spanish programs require a minimum grade of C in Spanish 101 or two years in high school with a passing grade.*

**42073 TBA Guerrero-Phlaum M SAC 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. This class requires the text "Puntos de partida" with the electronic code for online lab materials.

**42074 Quintero E SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. Section 42074 has been specifically designed for SPANISH SPEAKERS. This class requires the text "Mundo 21" with the electronic code for online lab materials.


**SPAN 102H, HONORS ELEMENTARY SPANISH II 5.0 UNITS**  
 Further enhanced and intensive training in language skills for the expression of ideas orally and in writing. Additional enriched study of Hispanic culture. Note: Some sections are designated for Spanish speakers. Spanish 102H is equivalent to the third year of high school Spanish.  
*Prerequisite: Spanish 101 or Spanish 101H with a minimum grade of C or two years of high school Spanish with a passing grade, and a high school or college GPA of 3.0 or above. All Cal State and UC universities have the same prerequisites for Spanish 102H.*

**42076 Quintero E SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required coursework. [canvas.sac.edu](https://canvas.sac.edu). There will be no instructional meetings. Section 42076 has been specifically designed for SPANISH SPEAKERS. This class requires the text "Mundo 21" with the electronic code for online lab materials.

## STUDY SKILLS (STDY)


**STDY 109, COLLEGE LEARNING SKILLS 3.0 UNITS**  
 This course provides effective success strategies to enhance student self-development, academic, and lifelong learning skills for the college student. The techniques include values, goal-setting, dealing with money, stress management, diversity, motivation, health, and time-management. Students learn personal growth methods and develop strategies to effectively deal with issues to ensure personal, educational, and career success.

**H 42989 Staff SAC ONLINE 07/01-08/07**  
**9:00a-1:15p M W Staff SAC I-108**  
 TRIO Program On-Campus Hybrid Instruction. A combination of on-campus meetings during the days and times indicated and online instruction. Students log in to Canvas. [canvas.sac.edu](https://canvas.sac.edu)

**43009 Staff SAC ONLINE 06/17-07/28**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Your instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this ZTC class.

## THEATRE ARTS (THEA)

**THEA 100, INTRODUCTION TO THEATRE 3.0 UNITS**  
 An introduction to the art and concepts of theatre through a study of modern and historical theories of dramatic structure, playwriting, directing, design, and acting. Attendance of live theatre required.

**41623 Cannon C SAC ONLINE 06/17-07/14**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings. Instructor has elected to use Open Educational Resources (OER) for this class and will provide a link to your course materials. There is no additional textbook cost for this Zero Textbook Cost (ZTC) class.

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Low Cost or Free Textbooks

 OER

 ZTC

Honors Courses:

 HONORS

## WELDING (WELD)

### WELD 101, INTRODUCTION TO WELDING

**3.0 UNITS**

This is a basic course designed to introduce students to shop safety, the proper use of tools and basic equipment, and basic fundamentals through the introduction of various welding processes currently used in the welding and metal fabrication industry. Processes will include Oxy-fuel cutting, Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW).

**H** 43057 **8:00a-12:35p** **Tu W Th** **Diamond Z** **Diamond Z** **SAC ONLINE** **06/17-08/11**  
**SAC K-115**

On-Campus Hybrid Instruction. A combination of on-campus Lab meetings during the days and times indicated and online instruction. Students log in to Canvas [canvas.sac.edu](https://canvas.sac.edu)

### WELD 111A, WELDING LAB SKILLS

**2.0 UNITS**

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation.

*Recommended Preparation: Current enrollment or completion of WELD 101 with a minimum grade of C.*

**C** 43053 **5:30p-9:55p** **M Tu W** **Gonzales G** **SAC K-115** **06/17-08/11**  
This class meets on-campus.

### WELD 111B, WELDING SKILLS LAB

**2.0 UNITS**

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation.

*Recommended Preparation: Current enrollment or completion with a minimum grade of C in WELD 101.*

**C** 43054 **5:30p-9:55p** **M Tu W** **Gonzales G** **SAC K-115** **06/17-08/11**  
This class meets on-campus.

### WELD 111C, WELDING SKILLS LAB

**2.0 UNITS**

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation.

*Recommended Preparation: Current enrollment or completion with a minimum grade of C in WELD 101.*

**C** 43055 **5:30p-9:55p** **M Tu W** **Gonzales G** **SAC K-115** **06/17-08/11**  
This class meets on-campus.

### WELD 111D, WELDING SKILLS LAB

**2.0 UNITS**

This class is designed for students to enhance their welding skills. Students will be able to practice open root welding, along with preparation for welding practical exams. This lab will focus on material preparation and welding techniques. Students will receive two units for 108 hours of participation.

*Recommended Preparation: Current enrollment or completion with a minimum grade of C in WELD 101.*

**C** 43056 **5:30p-9:55p** **M Tu W** **Gonzales G** **SAC K-115** **06/17-08/11**  
This class meets on-campus.

### WELD 177, WELDING METALLURGY

**3.0 UNITS**

This course is designed to introduce students to the field of metallurgy and familiarize the student with production, use, and testing of metals and other materials. This course reviews the relationships between the properties of metals/alloys as well as other materials and how they relate to design and manufacturing industries.

**O** 43058 **Gonzales G** **SAC ONLINE** **06/17-08/11**  
 Fully Online Instruction. Students are required to log in to Canvas by the first day of class for detailed information and required course work. [canvas.sac.edu](https://canvas.sac.edu) There will be no instructional meetings.

### WELD 244, WELDING CERTIFICATION D1.1 CODE CLINIC

**2.0 UNITS**

This course is designed for welding students looking to achieve their certification in the written portion of the American Welding Society (AWS) D1.1 Structural Steel code book. Emphasis will be focused on understanding and navigating the D1.1 Structural Steel code book. Students will cover prequalified/qualified design, prequalified base/filler material, procedure/welder qualifications, fabrication essentials, and testing as specified by AWS D1.1 Structural Code specifications leading to Los Angeles City or AWS welding certifications.

**O** 43059 **Gonzales G** **SAC ONLINE** **06/17-08/11**  
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Low Cost or  
Free Textbooks

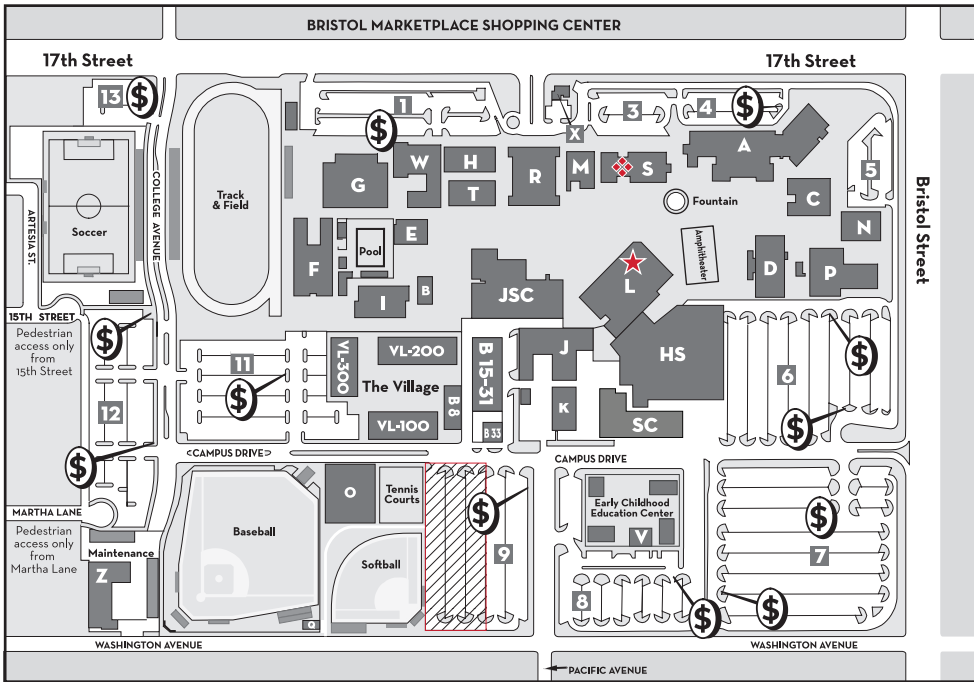
 OER

 ZTC

Honors Courses:

 HONORS

## CAMPUS MAP



**PARKING**

(\$ Daily Permit Dispenser (\$2.00 daily))

1 **STAFF**  
 2 **SECURITY**  
 3 **VISITOR**  
 4 - 5 **STAFF**  
 6 - 13 **STUDENT**  
 (except as posted)

**CAUTION!**  
 Parking in Bristol Marketplace, across the street from Santa Ana College, is not allowed. Violations will result in tow-aways. RSCCD requires parking permits for student and staff lots at Santa Ana College and Santiago Canyon College. Semester Parking Permits may be purchased at time of registration for \$30.00 in the Student Business Office in the Johnson Student Center (JSC-202) at Santa Ana College, as well as in the Cashier's Office at Santiago Canyon College. The purchase of your permit funds parking services and vehicle security when parked on campus.

# SAC FACILITIES AND LOCATIONS

<b>A Cesar Chavez Building</b>	<b>Disabled Students Program (DSPS)</b>	<b>JSC-108</b>	<b>P Phillips Hall Theatre</b>	
<b>Academic Computing Center</b>	<b>EOPS/CARE/CalWORKs</b>	<b>JSC-212</b>	<b>Q Sports Concession</b>	
<b>Distance Education</b>	<b>Financial Aid</b>	<b>JSC-201</b>	<b>R Russell Hall</b>	
<b>B Middle College High School</b>	<b>Grab-N-Go</b>	<b>JSC-116</b>	<b>S Administration Building – First Floor:</b>	
<b>Fire Technology Office</b>	<b>Guardian Scholars</b>	<b>JSC-215</b>	<b>Admissions / Records</b>	<b>S-101</b>
<b>Fire Tech Faculty Offices</b>	<b>Health &amp; Wellness Center</b>	<b>JSC-110</b>	<b>Counseling</b>	<b>S-112</b>
<b>B 8 Adult Education Center Office</b>	<b>International Student Program</b>	<b>JSC-208</b>	<b>Graduation Office</b>	<b>S-104</b>
<b>B 15 – 31 Adult Education Classrooms</b>	<b>Lactation Room</b>	<b>JSC-110</b>	<b>Promise Program</b>	<b>S-110</b>
<b>B 33 Adult Education Classrooms</b>	<b>Reprographics</b>	<b>JSC-120</b>	<b>PUENTE Program</b>	<b>S-110</b>
<b>C Fine Arts / Art Gallery</b>	<b>(TRiO) SSSP Upward Bound</b>	<b>JSC-209</b>	<b>University Transfer Center &amp; Center for Teacher Education</b>	<b>S-110</b>
<b>D Dunlap Hall</b>	<b>Student Business Office</b>	<b>JSC-202</b>	<b>Administration Building – 2nd Floor:</b>	
<b>Honors Program</b>	<b>Student Life</b>	<b>JSC-102</b>	<b>Community Services Program</b>	<b>S-203</b>
<b>Learning Center</b>	<b>Student Placement</b>	<b>JSC-203</b>	<b>Foundation</b>	<b>S-201</b>
<b>E Fitness Center</b>	<b>The Spot</b>	<b>JSC-101</b>	<b>Scholarship Program</b>	<b>S-201</b>
<b>F Locker Rooms</b>	<b>K Welding / Auto Diesel</b>		<b>SC Science Center</b>	
<b>G Cook Gym</b>	<b>L Nealley Library – 1st Floor</b>		<b>T Technical Arts</b>	
<b>H Hammond Hall</b>	<b>L Building – 2nd Floor:</b>		<b>V Early Childhood Education Center</b>	
<b>HS Health Science</b>	<b>Assessment Center</b>	<b>L-223</b>	<b>Classroom</b>	<b>V-103</b>
<b>I Classroom Building</b>	<b>Career Center</b>	<b>L-222</b>	<b>VL The Village</b>	
<b>J Auto Shop</b>	<b>Math Study Center</b>	<b>L-204</b>	<b>Student Outreach</b>	<b>VL-205</b>
<b>JSC Johnson Student Center</b>	<b>MESA Program</b>	<b>L-206</b>	<b>Middle College High School Classrooms</b>	<b>VL-300</b>
<b>Associated Student Government (ASG)</b>	<b>M Planetarium</b>		<b>W Kinesiology</b>	
<b>Bookstore (in Campus Store)</b>	<b>Veterans Resource Center</b>	<b>M-120</b>	<b>X Security / Safety</b>	
<b>Cafe -Coffee/Juice Bar</b>	<b>N Music Building</b>		<b>Z Maintenance</b>	
<b>Campus Store/Quick Stop</b>	<b>O Central Plant</b>			



# ONLINE LEARNING AT SAC

## In your space ... in your time

- Distance Education courses give you an opportunity to complete most of your work outside the traditional classroom.
- Earn your degree
- An education that works around your schedule
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[sac.edu/online](https://sac.edu/online)

Contact us @ (714) 564-6725 or [sac\\_disted@sac.edu](mailto:sac_disted@sac.edu)

Distance Education Office - Cesar Chavez Building, Room A-101



## SANTA ANA COLLEGE

1530 West 17th Street • Santa Ana, CA 92706 • [sac.edu](https://sac.edu)

### CENTENNIAL EDUCATION CENTER

2900 West Edinger Avenue  
Santa Ana, CA 92704

[sac.edu/cec](https://sac.edu/cec)

### DIGITAL MEDIA CENTER

1300 South Bristol Street  
Santa Ana, CA 92708

[ranchodmc.com](https://ranchodmc.com)

### ORANGE COUNTY SHERIFF'S REGIONAL TRAINING ACADEMY

15991 Armstrong Avenue  
Tustin, CA 92782

### JOINT POWERS FIRE TRAINING CENTER

18301 Gothard  
Huntington Beach, CA 92648

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